

TorreyPines Therapeutics, Inc.
Form 424B3
August 28, 2009
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**Filed Pursuant to Rule 424B3
Registration No. 333-161424**

MEETINGS OF STOCKHOLDERS

PROPOSED MERGER

YOUR VOTE IS VERY IMPORTANT

To the Stockholders of TorreyPines Therapeutics, Inc. and Raptor Pharmaceuticals Corp.:

TorreyPines Therapeutics, Inc., which we refer to as TorreyPines, and Raptor Pharmaceuticals Corp., which we refer to as Raptor, have entered into a merger agreement pursuant to which a wholly-owned subsidiary of TorreyPines will merge with and into Raptor, with Raptor continuing as a wholly-owned subsidiary of TorreyPines. TorreyPines and Raptor believe that the merger will result in a biopharmaceutical company that will be better able to achieve the goals of developing new medicines and/or reformulations of existing medicines for new indications in order to address significant unmet or underserved needs of patients.

At the effective time of the merger, each outstanding share of Raptor common stock is expected to convert into the right to receive the number of shares of TorreyPines common stock equal to the 303,982,102 shares of TorreyPines common stock to be issued in the merger divided by 69,145,047 shares of Raptor common stock outstanding as of the signing of the merger agreement plus 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options outstanding as of the signing of the merger agreement plus any additional shares of Raptor common stock and securities exercisable for or exchangeable or convertible into Raptor common stock that may be issued following the execution of the merger agreement and prior to the effective time of the merger, subject to adjustment to account for the effect of a reverse stock split of TorreyPines common stock to be implemented prior to the consummation of the merger as discussed in the accompanying joint proxy statement/prospectus. TorreyPines stockholders will continue to own their existing shares of TorreyPines common stock. TorreyPines will assume outstanding and unexercised options and warrants to purchase Raptor common stock, and such options and warrants are expected to convert into warrants and options, as applicable, to purchase TorreyPines common stock. Immediately after the merger, Raptor stockholders will hold 95% of the outstanding shares of common stock of the combined company, with TorreyPines stockholders holding 5% of the outstanding shares of common stock of the combined company. For a more complete description of the relative holdings of TorreyPines stockholders and Raptor's stockholders with respect to the capital structure of the combined company, please see the sections titled, "Matters Being Submitted to a Vote of TorreyPines Stockholders TorreyPines Proposal No. 2: Approval of Amendment to TorreyPines Certificate of Incorporation Effecting the Reverse Stock Split" and "The Merger Agreement Merger Consideration and Adjustment" in this joint proxy statement/prospectus beginning on pages 128 and 109, respectively.

Shares of TorreyPines common stock are currently listed on the NASDAQ Global Market under the symbol "TPTX". Shares of Raptor common stock are currently quoted on the Financial Industry Regulatory Authority, or FINRA, Over-the-Counter Bulletin Board, or OTC Bulletin Board, under the symbol "RPTP". Prior to the consummation of the merger TorreyPines intends to file an initial listing application with the NASDAQ Capital Market pursuant to the NASDAQ reverse merger rules for the listing of the combined company following the merger. After completion of the merger, TorreyPines will be renamed Raptor Pharmaceutical Corp. and expects to trade on the NASDAQ Capital Market under the symbol "RPTP". On August 27, 2009, the last trading day before the date of this joint proxy statement/prospectus, the closing sale price of TorreyPines common stock was \$0.39 per share and the closing sale price of Raptor common stock was \$0.38 per share.

TorreyPines and Raptor are each holding their respective annual meetings of stockholders in order to obtain the stockholder approvals necessary to complete the merger and related matters. At the TorreyPines annual meeting, which will be held at 10:00 a.m., local time, on September 28, 2009 at the offices of Cooley Godward Kronish LLP at 4401 Eastgate Mall, San Diego, CA 92121, unless postponed or adjourned to a later date, TorreyPines will ask its stockholders to, among other things, approve the issuance of TorreyPines common stock pursuant to the merger agreement, as well as the resulting change in control and approve amendments to TorreyPines certificate of incorporation effecting a reverse stock split of TorreyPines common stock at one of seventeen reverse split ratios, which is referred to as the reverse stock split, and changing the TorreyPines corporate name to Raptor Pharmaceutical Corp., each as described in the accompanying joint proxy statement/prospectus. Upon the effectiveness of the amendment to TorreyPines certificate of incorporation effecting the

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reverse stock split, referred to as the split effective time, the issued shares of TorreyPines common stock immediately prior to the split effective time will be combined into a smaller number of shares. Depending on the ratio for the reverse stock split, each ten, eleven, twelve, thirteen, fourteen, fifteen, seventeen, twenty, twenty-five, thirty, thirty-five, forty, forty-five, fifty, fifty-five, sixty or seventy shares, of existing TorreyPines common stock held by a TorreyPines stockholder immediately prior to the split effective time will be combined into one new share of TorreyPines common stock. The number of shares of common stock issued and outstanding will therefore be reduced, depending upon the reverse stock split ratio determined by the TorreyPines board of directors and approved by the Raptor board of directors. The amendment to the restated certificate of incorporation that is filed to effect the reverse stock split, if any, will include only the reverse split ratio determined by the boards of directors of TorreyPines and Raptor, respectively, that causes the combined company's stock price to be at least \$4.00 per share and which is determined to be in the best interests of the stockholders of TorreyPines and Raptor, respectively, and all of the other proposed amendments at different ratios will be abandoned. The exact split ratio will be publicly announced by TorreyPines.

At the Raptor annual meeting, which will be held at 10:00 a.m., local time, on September 28, 2009 at Raptor's corporate offices at 9 Commercial Blvd., Suite 200, Novato, CA 94949, unless postponed or adjourned to a later date, Raptor will ask its stockholders to, among other things, adopt the merger agreement, as described in the accompanying joint proxy statement/prospectus.

Concurrently with and as a condition to the execution of the merger agreement, and as described in the accompanying joint proxy statement/prospectus, certain TorreyPines directors and officers who in the aggregate own approximately 1% of the outstanding shares of TorreyPines common stock, and certain Raptor directors and officers who in the aggregate own approximately 11% of Raptor common stock, entered into voting agreements whereby they agreed to vote in favor of the TorreyPines proposals and Raptor proposals, respectively, subject to the terms of the voting agreements.

After careful consideration, the TorreyPines and Raptor boards of directors have each unanimously approved the merger agreement and the respective proposals referred to above, and each of the TorreyPines and Raptor boards of directors has determined that it is advisable to enter into the merger. Each of the boards of directors of TorreyPines and Raptor recommends that its respective stockholders vote FOR the respective proposals described in the accompanying joint proxy statement/prospectus.

More information about TorreyPines, Raptor and the proposed transaction is contained in the accompanying joint proxy statement/prospectus. **TorreyPines and Raptor urge you to read the accompanying joint proxy statement/prospectus carefully and in its entirety. IN PARTICULAR, YOU SHOULD CAREFULLY CONSIDER THE MATTERS DISCUSSED UNDER RISK FACTORS BEGINNING ON PAGE 28.**

TorreyPines and Raptor are very excited about the opportunities the merger brings to both TorreyPines and Raptor stockholders, and we thank you for your consideration and continued support.

/s/ Evelyn Graham
Chief Executive Officer
TORREYPINES THERAPEUTICS, INC.

/s/ Christopher Starr
Chief Executive Officer and Director
RAPTOR PHARMACEUTICALS CORP.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of the joint proxy statement/prospectus. Any representation to the contrary is a criminal offense.

The accompanying joint proxy statement/prospectus is dated August 28, 2009, and is first being mailed to TorreyPines and Raptor stockholders, respectively, on or about September 1, 2009.

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TORREYPINES THERAPEUTICS, INC.

P.O. Box 231386

Encinitas, CA 92023-1386 (858) 623-5665

NOTICE OF ANNUAL MEETING OF STOCKHOLDERS

TO BE HELD ON SEPTEMBER 28, 2009

Dear Stockholders of TorreyPines:

On behalf of the board of directors of TorreyPines Therapeutics, Inc., a Delaware corporation, we are pleased to deliver the accompanying joint proxy statement/prospectus for the proposed merger between TorreyPines and Raptor Pharmaceuticals Corp., a Delaware corporation, pursuant to which ECP Acquisition, Inc., a wholly-owned subsidiary of TorreyPines, will merge with and into Raptor, which will survive as a wholly-owned subsidiary of TorreyPines. The annual meeting of stockholders of TorreyPines will be held on September 28, 2009 at 10:00 a.m., local time, at the offices of Cooley Godward Kronish LLP at 4401 Eastgate Mall, San Diego, CA 92121, for the following purposes:

1. To consider and vote upon a proposal to approve the issuance of TorreyPines common stock and the resulting change in control of TorreyPines pursuant to that certain Agreement and Plan of Merger and Reorganization, dated as of July 27, 2009, by and among TorreyPines, ECP Acquisition, Inc. and Raptor, a copy of which is attached as *Annex A* to the accompanying joint proxy statement/prospectus.
2. To approve an amendment to TorreyPines certificate of incorporation effecting the reverse stock split at one of seventeen reverse split ratios: 1-for-10, 1-for-11, 1-for-12, 1-for-13, 1-for-14, 1-for-15, 1-for-17, 1-for-20, 1-for-25, 1-for-30, 1-for-35, 1-for-40, 1-for-45, 1-for-50, 1-for-55, 1-for-60 or 1-for-70, as described in the accompanying joint proxy statement/prospectus.
3. To approve an amendment to TorreyPines certificate of incorporation to change the corporate name of TorreyPines from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp.
4. To elect the four directors nominated by the TorreyPines board of directors and named herein; provided, however, that if the merger is consummated, it is anticipated that the TorreyPines board of directors will consist of the four people identified in the accompanying joint proxy statement/prospectus.
5. To consider and vote upon an adjournment of the TorreyPines annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of TorreyPines Proposal Nos. 1, 2 and 3.
6. To transact such other business as may properly come before the TorreyPines annual meeting or any adjournment or postponement thereof.

The board of directors of TorreyPines has fixed August 27, 2009 as the record date for the determination of stockholders entitled to notice of, and to vote at, the TorreyPines annual meeting and any adjournment or postponement thereof. Only holders of record of shares of TorreyPines common stock at the close of business on the record date are entitled to notice of, and to vote at, the TorreyPines annual meeting. At the close of business on the record date, TorreyPines had 15,999,058 shares of common stock outstanding and entitled to vote.

Your vote is important. The affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting is required for approval of TorreyPines Proposal Nos. 1 and 5. The affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power outstanding on the record date for the TorreyPines annual meeting is required for approval of TorreyPines Proposal Nos. 2 and 3. For the election of directors (Proposal No. 4), the four nominees receiving the most FOR votes from the shares of TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting will be elected.

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The accompanying joint proxy statement/prospectus describes the proposed merger and the actions to be taken in connection with the merger and provides additional information about the parties involved. Please give this information your careful attention.

Even if you plan to attend the TorreyPines annual meeting in person, TorreyPines requests that you sign and return the enclosed proxy to ensure that your shares will be represented at the TorreyPines annual meeting if you are unable to attend. If you sign, date and mail your proxy card without indicating how you wish to vote, your proxy will be counted as a vote in favor of TorreyPines Proposal Nos. 1 through 5. If you fail to return your proxy card and do not attend the TorreyPines annual meeting in person, the effect will be that your shares will not be counted for purposes of determining whether a quorum is present at the TorreyPines annual meeting and will count as a vote against TorreyPines Proposal Nos. 2 and 3. If you do attend the TorreyPines annual meeting and wish to vote in person, you may withdraw your proxy and vote in person. You may revoke the proxy at any time prior to the TorreyPines annual meeting in the manner described in the accompanying joint proxy statement/prospectus. Any stockholder present at the TorreyPines annual meeting, including any adjournment or postponement of the meeting, may revoke such stockholder's proxy and vote personally on the matters to be considered at the TorreyPines annual meeting.

Please do not send any TorreyPines stock certificates at this time. If TorreyPines Proposal Nos. 2 and 3 are approved and effected, you will receive written instructions for exchanging your stock certificates.

By Order of TorreyPines Board of Directors,

/s/ Evelyn Graham

Chief Executive Officer and Director

Encinitas, California

August 28, 2009

THE TORREYPINES BOARD OF DIRECTORS HAS DETERMINED AND BELIEVES THAT EACH OF THE PROPOSALS OUTLINED ABOVE IS ADVISABLE TO, AND IN THE BEST INTERESTS OF, TORREYPINES AND ITS STOCKHOLDERS AND HAS APPROVED EACH SUCH PROPOSAL. THE TORREYPINES BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT TORREYPINES STOCKHOLDERS VOTE FOR EACH SUCH PROPOSAL AND FOR EACH OF THE NOMINEES FOR ELECTION OF DIRECTORS IN PROPOSAL NO. 4.

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RAPTOR PHARMACEUTICALS CORP.

9 Commercial Blvd.

Suite 200

Novato, CA 94949

(415) 382-8111

NOTICE OF ANNUAL MEETING OF STOCKHOLDERS

TO BE HELD ON SEPTEMBER 28, 2009

Dear Stockholders of Raptor Pharmaceuticals Corp.:

On behalf of the board of directors of Raptor Pharmaceuticals Corp., a Delaware corporation, we are pleased to deliver the accompanying joint proxy statement/prospectus for the proposed merger between Raptor and TorreyPines Therapeutics, Inc., a Delaware corporation, pursuant to which ECP Acquisition, Inc., a wholly-owned subsidiary of TorreyPines, will merge with and into Raptor, which will survive as a wholly-owned subsidiary of TorreyPines. The annual meeting of stockholders of Raptor will be held at 10:00 a.m., local time, on September 28, 2009 at its corporate offices at 9 Commercial Blvd., Suite 200, Novato, CA 94949, for the following purposes:

1. To consider and vote upon a proposal to adopt that certain Agreement and Plan of Merger and Reorganization, dated as of July 27, 2009, by and among TorreyPines, ECP Acquisition, Inc. and Raptor, a copy of which is attached as *Annex A* to the accompanying joint proxy statement/prospectus.
2. To elect four directors named herein to serve until the next annual meeting of Raptor stockholders or until their respective successors are duly elected and qualified.
3. To ratify the appointment by the audit committee of Raptor's board of directors of Burr, Pilger & Mayer, LLP as Raptor's independent registered public accounting firm for the fiscal year ending August 31, 2009.
4. To consider and vote upon an adjournment of the Raptor annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of the merger agreement.
5. To transact such other business as may properly come before the Raptor annual meeting or any adjournment or postponement thereof.

The board of directors of Raptor has fixed August 27, 2009 as the record date for the determination of stockholders entitled to notice of, and to vote at, the Raptor annual meeting and any adjournment or postponement thereof. Only holders of record of shares of Raptor common stock at the close of business on the record date are entitled to notice of, and to vote at, the Raptor annual meeting. At the close of business on the record date, Raptor had 76,601,297 shares of common stock outstanding and entitled to vote.

Your vote is important. The affirmative vote of the holders of a majority of the shares of Raptor common stock outstanding on the record date and entitled to vote at the Raptor annual meeting is required for approval of Raptor Proposal No. 1. The affirmative vote of the holders of a majority of the shares of Raptor common stock having voting power present in person or represented by proxy at the Raptor annual meeting is required for approval of Raptor Proposal Nos. 3 and 4. For the election of directors (Proposal No. 2), the affirmative vote of a plurality of the voting power of the shares present in person or represented by proxy at the Raptor annual meeting is required.

Under the Delaware General Corporation Law, referred to as the DGCL, holders of Raptor common stock who do not vote in favor of the adoption of the merger agreement will have the ability to seek appraisal of the fair value of their shares as determined by the Delaware Court of Chancery if the merger is completed, but only if they submit a written demand for an appraisal prior to the vote on the adoption of the merger agreement and they

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comply with the other procedures under the DGCL explained in the joint proxy statement/prospectus. For more information, please see the section titled, "The Merger Appraisal Rights" in the accompanying joint proxy statement/prospectus.

The accompanying joint proxy statement/prospectus describes the proposed merger and the actions to be taken in connection with the merger and provides additional information about the parties involved. Please give this information your careful attention.

Even if you plan to attend the Raptor annual meeting in person, Raptor requests that you sign and return the enclosed proxy to ensure that your shares will be represented at the Raptor annual meeting if you are unable to attend. If you sign, date and mail your proxy card without indicating how you wish to vote, your proxy will be counted as a vote in favor of Raptor Proposal Nos. 1 through 4. If you fail to return your proxy card and do not attend the Raptor annual meeting in person, the effect will be that your shares will not be counted for purposes of determining whether a quorum is present at the Raptor annual meeting and will count as a vote against Raptor Proposal No. 1. If you do attend the Raptor annual meeting and wish to vote in person, you may withdraw your proxy and vote in person. You may revoke the proxy at any time prior to the Raptor annual meeting in the manner described in the accompanying joint proxy statement/prospectus. Any stockholder present at the Raptor annual meeting, including any adjournment or postponement of the meeting, may revoke such stockholder's proxy and vote personally on the matters to be considered at the Raptor annual meeting.

Please do not send any Raptor stock certificates at this time. After the merger is completed, you will receive written instructions for exchanging your stock certificates.

By Order of Raptor's Board of Directors,

/s/ Christopher Starr

Chief Executive Officer and Director

Novato, California

August 28, 2009

THE RAPTOR BOARD OF DIRECTORS HAS DETERMINED AND BELIEVES THAT EACH OF THE PROPOSALS OUTLINED ABOVE IS ADVISABLE TO, AND IN THE BEST INTERESTS OF, RAPTOR AND ITS STOCKHOLDERS AND HAS APPROVED EACH SUCH PROPOSAL. THE RAPTOR BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT RAPTOR STOCKHOLDERS VOTE FOR EACH SUCH PROPOSAL AND FOR EACH OF THE NOMINEES FOR ELECTION OF DIRECTORS IN PROPOSAL 2.

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ADDITIONAL INFORMATION

This proxy statement/prospectus incorporates important business and financial information about TorreyPines and Raptor that is not included in or delivered with this proxy statement/prospectus. This information is available without charge to security holders upon written or oral request delivered to the following address and/or phone number: Attn: Investor Relations, TorreyPines Therapeutics, Inc., P.O. Box 231386, Encinitas, CA 92023-1386, telephone number (858) 623-5665. In order to obtain timely delivery, security holders must request the information no later than five business days before the date that security holders must make their investment decision. See the section titled, "Where You Can Find More Information" on page 273 of this joint proxy statement/prospectus.

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QUESTIONS AND ANSWERS ABOUT THE MERGER

Except where specifically noted, the following information and all other information contained in this joint proxy statement/prospectus does not give effect to the reverse stock split described in TorreyPines Proposal No. 2.

The following section provides answers to frequently asked questions about the merger. This section, however, provides only summary information. For a more complete response to these questions and for additional information, please refer to the cross-referenced sections.

Q: What is the merger?

A: TorreyPines, ECP Acquisition, Inc., a Delaware corporation and a wholly-owned subsidiary of TorreyPines, which is referred to as the merger sub, and Raptor have entered into an Agreement and Plan of Merger and Reorganization, dated as of July 27, 2009, which is referred to as the merger agreement. The merger agreement contains the terms and conditions of the proposed business combination of TorreyPines and Raptor. Under the merger agreement, merger sub will merge with and into Raptor, with Raptor continuing as a wholly-owned subsidiary of TorreyPines, which transaction is referred to as the merger. At the effective time of the merger, each outstanding share of Raptor common stock is expected to convert into the right to receive the number of shares of TorreyPines common stock equal to the 303,982,102 shares of TorreyPines common stock to be issued in the merger divided by 69,145,047 shares of Raptor common stock outstanding as of the signing of the merger agreement plus 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options outstanding as of the signing of the merger agreement plus any additional shares of Raptor common stock and securities exercisable for or exchangeable or convertible into Raptor common stock that may be issued following the execution of the merger agreement and prior to the effective time of the merger, subject to adjustment to account for the effect of a reverse stock split of TorreyPines common stock to be implemented immediately prior to the consummation of the merger, which is referred to as the reverse stock split.

Q: Why are the two companies proposing to merge?

A: TorreyPines and Raptor believe that the merger will create a strong, more diversified biopharmaceutical company. The combined company will have a seasoned management team, six clinical programs either in, or ready to begin, Phase II or Phase III clinical trials as well as three preclinical programs based upon a proprietary drug-targeting platform, one of which is partnered with a large pharmaceutical company. TorreyPines and Raptor believe that as a combined company, they will be better able to achieve the goals of developing new medicines to address significant unmet or underserved needs of patients. TorreyPines and Raptor also believe that the combined company provides the opportunity to reorganize both TorreyPines and Raptor's capital structure and that the contemplated listing on the NASDAQ Capital Market may provide the combined company with access to a more liquid market for the combined company's common stock.

Q: On what market are the combined company's shares expected to trade?

A: It is a condition to the closing of the merger that TorreyPines file an initial listing application with the NASDAQ Capital Market pursuant to The NASDAQ Stock Market LLC reverse merger rules and receive conditional approval for the trading of the combined company's common stock on the NASDAQ Capital Market. If such application is accepted, TorreyPines anticipates that the combined company's common stock will be listed on the NASDAQ Capital Market following the closing of the merger under the trading symbol RPTP.

Q: Why am I receiving this joint proxy statement/prospectus?

A: You are receiving this joint proxy statement/prospectus because you have been identified as a stockholder of either TorreyPines or Raptor as of the applicable record date, and you are entitled to vote at such company's

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annual stockholders meeting. This document serves as both a joint proxy statement of TorreyPines and Raptor used to solicit proxies for the respective annual stockholders meetings, and as a prospectus of TorreyPines used to offer shares of TorreyPines common stock in exchange for shares of Raptor common stock in the merger. This joint proxy statement/prospectus contains important information about the merger and respective annual stockholders meetings of TorreyPines and Raptor, and you should read it carefully.

Q: What is required to consummate the merger?

A: To consummate the merger, TorreyPines stockholders must approve:

the issuance of shares of TorreyPines common stock in the merger and the resulting change of control of TorreyPines, which requires the affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting; and

the amendment to TorreyPines certificate of incorporation to effect the reverse stock split of the issued and outstanding shares of TorreyPines common stock and the change of the TorreyPines corporate name to Raptor Pharmaceutical Corp. , which requires the affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power outstanding on the record date for the TorreyPines annual meeting.

To consummate the merger, Raptor stockholders must adopt the merger agreement, which requires the affirmative vote of the holders of a majority of the shares of Raptor common stock outstanding on the record date and entitled to vote at the Raptor annual meeting.

In addition to obtaining TorreyPines and Raptor's stockholder approval, each of the other closing conditions set forth in the merger agreement must be satisfied or waived. For a more complete description of the closing conditions under the merger agreement, please see the section titled, The Merger Agreement Conditions to Completion of the Merger beginning on page 112 of this joint proxy statement/prospectus.

Q: What risks should I consider in deciding whether to vote in favor of or consent to the proposals?

A: You should carefully review the section of this joint proxy statement/prospectus titled, Risk Factors beginning on page 28 of this joint proxy statement/prospectus, which sets forth certain risks and uncertainties related to the merger, risks and uncertainties to which the combined company's business will be subject and risks and uncertainties to which each of TorreyPines and Raptor, as an independent company, is subject.

Q: When do the parties expect to complete the merger?

A: The parties are working towards completing the merger as quickly as possible. TorreyPines and Raptor anticipate that the merger will occur in the fourth quarter of 2009, promptly after the later to occur of the conclusion of the TorreyPines annual meeting and the Raptor annual meeting. However, because completion of the merger is subject to various closing conditions, TorreyPines and Raptor cannot predict the exact timing of the merger or whether the merger will occur at all. For more information, please see the section titled, The Merger Agreement Conditions to the Completion of the Merger on page 112 of this joint proxy statement/prospectus.

Q: What will happen to any options or warrants to acquire Raptor common stock in the merger?

A:

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As a result of the merger, Raptor warrant holders and option holders will have their Raptor warrants and options converted into warrants and options to purchase TorreyPines common stock, as applicable, with the number of shares and exercise price being appropriately adjusted to reflect the exchange ratio between TorreyPines common stock and Raptor common stock determined in accordance with the merger agreement

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and further subject to adjustment to account for the reverse stock split as described in further detail in this joint proxy statement/prospectus. For a more complete description of what Raptor warrant holders and option holders will receive in the merger, please see the section titled, "The Merger Agreement Merger Consideration and Adjustment" in this joint proxy statement/prospectus beginning on page 109.

Q: Who will be the directors of the combined company following the merger?

A: Immediately following the merger, the board of directors of the combined company is expected to be composed solely of the members of the Raptor board of directors prior to the merger: (i) Christopher M. Starr, Ph.D., (ii) Raymond W. Anderson, (iii) Erich Sager and (iv) Richard L. Franklin, M.D., Ph.D.

Q: Who will be the executive officers of the combined company immediately following the merger?

A: Immediately following the merger, the executive management team of the combined company is expected to be composed solely of the members of the Raptor executive management team prior to the merger:

| Name | Title |
|-----------------------------|--|
| Christopher M. Starr, Ph.D. | Chief Executive Officer |
| Todd C. Zankel, Ph.D. | Chief Scientific Officer |
| Kim R. Tsuchimoto | Chief Financial Officer, Treasurer and Secretary |

Q: What is the reverse stock split and why is it necessary?

A: Immediately prior to the effective time of the merger, the outstanding shares of TorreyPines common stock will be combined into a lesser number of shares to be determined by TorreyPines and Raptor's respective boards of directors prior to the effective time and publicly announced by TorreyPines and Raptor. The merger constitutes a reverse merger under applicable marketplace rules established by NASDAQ Stock Market, LLC, which requires the combined company to comply with the initial listing standards of the applicable NASDAQ market to continue to be listed on such market following the merger. The NASDAQ Capital Market's initial listing standards require a company to have, among other things, a \$4.00 per share minimum bid price. Because it is a condition precedent to the merger that TorreyPines common stock be listed on the NASDAQ Capital Market, and the current price of TorreyPines common stock is less than the minimum bid price required by such market, unless the condition is waived, the reverse stock split is necessary to consummate the merger.

Q: What are the United States federal income tax consequences of the merger?

A: Each of TorreyPines and Raptor expects the merger to qualify as a reorganization within the meaning of Section 368(a) of the Internal Revenue Code of 1986, as amended, or the Code, and it is a closing condition to the merger that TorreyPines and Raptor each receive opinions of their respective counsel regarding such qualification. Assuming the merger qualifies as a reorganization, then, in general, no Raptor stockholder will recognize gain or loss upon the exchange of Raptor common stock for TorreyPines common stock pursuant to the merger, except to the extent of cash received in lieu of a fractional share of TorreyPines common stock as described below; and each Raptor stockholder will recognize gain or loss to the extent any cash received in lieu of a fractional share of TorreyPines common stock exceeds or is less than, respectively, the basis of such fractional share. No gain or loss will be recognized by TorreyPines stockholders (who are not also Raptor stockholders) as a result of the merger.

Tax matters are very complicated, and the tax consequences of the merger to a particular TorreyPines or Raptor stockholder will depend in part on such stockholder's circumstances. Accordingly, you should consult your tax advisor for a full understanding of the tax consequences of the merger to you, including the applicability and effect of federal, state, local and foreign income and other tax laws. For more information, please

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see the section titled, The Merger Material United States Federal Income Tax Consequences of the Merger in this joint proxy statement/prospectus beginning on page 102.

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Q: What will happen to TorreyPines if, for any reason, the merger with Raptor does not close?

A: If, for any reason, the merger with Raptor does not close, the TorreyPines board of directors may elect to, among other things, attempt to sell or otherwise dispose of TorreyPines' licensed assets, attempt to complete another strategic transaction like the merger or continue to operate TorreyPines' business. However, given TorreyPines' limited cash reserves it is unlikely TorreyPines would be able to complete any of these transactions in a timely fashion and TorreyPines may be forced to file for bankruptcy, cease operations or liquidate and dissolve.

Q: Who is paying for this proxy solicitation?

A: TorreyPines and Raptor will pay the cost of soliciting their respective proxies. Raptor has agreed to pay all fees and expenses, other than fees and expenses of attorneys, accountants and financial advisors, incurred in connection with the filing with the U.S. Securities and Exchange Commission, or SEC, printing and mailing of this joint proxy statement/prospectus (and the registration statement of which it is a part) and any amendments or supplements thereto. Arrangements will be made with brokerage firms and other custodians, nominees and fiduciaries who are record holders of TorreyPines and Raptor common stock for the forwarding of solicitation materials to the beneficial owners of TorreyPines and Raptor common stock. TorreyPines and Raptor will pay the cost of reimbursing their respective, applicable brokers, custodians, nominees and fiduciaries for the reasonable out-of-pocket expenses they incur in connection with the forwarding of solicitation materials.

FOR TORREYPINES STOCKHOLDERS:

Q: Who is soliciting my proxy?

A: The proxy is being solicited of TorreyPines' stockholders by TorreyPines' board of directors.

Q: On what matters am I being asked to vote?

A: TorreyPines' stockholders are being asked to:

consider and vote upon a proposal to approve the issuance of TorreyPines common stock and the resulting change in control of TorreyPines pursuant to the merger agreement;

consider and vote upon a proposal to approve an amendment to TorreyPines' certificate of incorporation effecting the reverse stock split at one of seventeen reverse split ratios: 1-for-10, 1-for-11, 1-for-12, 1-for-13, 1-for-14, 1-for-15, 1-for-17, 1-for-20, 1-for-25, 1-for-30, 1-for-35, 1-for-40, 1-for-45, 1-for-50, 1-for-55, 1-for-60 or 1-for-70;

consider and vote upon a proposal to approve an amendment to TorreyPines' certificate of incorporation to change the corporate name of TorreyPines from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. ;

consider and vote upon a proposal to elect the four directors nominated by the TorreyPines' board of directors; and

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consider and vote upon a proposal to adjourn the TorreyPines annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of the TorreyPines Proposal Nos. 1, 2 and 3.

Q: As a TorreyPines stockholder, how does TorreyPines Board of Directors recommend that I vote?

A: After careful consideration, TorreyPines board of directors recommends that TorreyPines stockholders vote:

FOR Proposal No. 1 to approve the issuance of shares of TorreyPines common stock in the merger, and the resulting change of control of TorreyPines;

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FOR Proposal No. 2 to approve the amendment to TorreyPines certificate of incorporation to effect a reverse stock split of the issued and outstanding shares of TorreyPines common stock;

FOR Proposal No. 3 to approve the amendment to TorreyPines certificate of incorporation to change the corporate name of TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. ;

FOR Proposal No. 4 to elect the four directors nominated by the TorreyPines board of directors; and

FOR Proposal No. 5 to consider and vote upon an adjournment of the annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of TorreyPines Proposal Nos. 1, 2 and 3.

To review the background of the merger and TorreyPines board of directors reasons for recommending the merger in greater detail, see the sections titled, The Merger Background of the Merger and The Merger Reasons for the Merger beginning on pages 83 and 88, respectively, of this joint proxy statement/prospectus.

Q: Am I entitled to appraisal rights?

A: Under Delaware General Corporation Law, or the DGCL, holders of TorreyPines common stock are not entitled to appraisal rights in connection with the merger or the proposals described in this joint proxy statement/prospectus.

Q: Will the TorreyPines stockholder rights plan be triggered as a result of the merger?

A: No. TorreyPines board of directors adopted an amendment to the TorreyPines stockholder rights plan that excludes the signing of the merger agreement, the merger and the other transactions contemplated with Raptor from triggering the TorreyPines stockholder rights plan.

Q: What do I need to do now?

A: TorreyPines and Raptor urge you to read this joint proxy statement/prospectus carefully, including its annexes, and to consider how the merger affects you.

If you are a TorreyPines stockholder, you may provide your proxy instructions in one of three different ways. First, you can mail your signed proxy card in the enclosed return envelope. Alternatively, you can provide your proxy instructions via touch-tone telephone by dialing the toll-free telephone number on your proxy card or voting instruction form. You may also provide your proxy instructions via the Internet by following the instructions on your proxy card or voting instruction form. If your proxy card allows for Internet voting and you have Internet access, TorreyPines encourages you to record your vote on the Internet. It is convenient, and it saves TorreyPines significant postage and processing costs. In addition, when voting via the Internet or by telephone prior to the meeting date, your vote is recorded immediately, and there is no risk that postal delays will cause your vote to arrive late and therefore not be counted. Please provide your proxy instructions only once and as soon as possible so that your shares can be voted at the annual meeting of stockholders of TorreyPines.

Q: What happens if I return a signed and dated proxy card but do not indicate how to vote my proxy?

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- A: If you do not include instructions on how to vote your properly signed and dated proxy, your shares will be voted **FOR** approval of the issuance of shares of TorreyPines common stock in the merger and the resulting change of control of TorreyPines; **FOR** election of the four directors nominated by the TorreyPines board of directors; and **FOR** approval of the adjournment of the TorreyPines annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of TorreyPines Proposal Nos. 1, 2 and 3.

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Q: What happens if I do not return a proxy card or otherwise provide proxy instructions?

A: If you are a TorreyPines stockholder, the failure to return your proxy card or otherwise provide proxy instructions will have the same effect as voting against TorreyPines Proposal Nos. 2 and 3 and your shares will not be counted for purposes of determining whether a quorum is present at the TorreyPines annual meeting.

Q: May I vote in person?

A: If you are a stockholder of TorreyPines and your shares of TorreyPines common stock are registered directly in your name with TorreyPines transfer agent, you are considered to be the stockholder of record with respect to those shares, and the proxy materials and proxy card are being sent directly to you by TorreyPines. If you are a TorreyPines stockholder of record, you may attend the annual meeting of TorreyPines stockholders to be held on September 28, 2009 and vote your shares in person. **Even if you plan to attend the TorreyPines annual meeting in person, TorreyPines requests that you sign and return the enclosed proxy to ensure that your shares will be represented at the TorreyPines annual meeting if you are unable to attend.**

Q: If my TorreyPines shares are held in street name by my broker, will my broker vote my shares for me?

A: If your shares of TorreyPines common stock are held in a brokerage account or by another nominee, you are considered the beneficial owner of shares held in street name, and the proxy materials are being forwarded to you together with a voting instruction card. As the beneficial owner, you are also invited to attend the annual meeting of TorreyPines stockholders. Because a beneficial owner is not the stockholder of record, you may not vote these shares in person at the TorreyPines annual meeting unless you obtain a proxy from the broker, trustee or nominee that holds your shares, giving you the right to vote the shares at the meeting. Additionally, unless your broker has discretionary authority to vote on certain matters, your broker will not be able to vote your shares of TorreyPines common stock without instructions from you. To make sure that your vote is counted, you should instruct your broker to vote your shares, following the procedure provided by your broker.

Q: May I change my vote after I have submitted a proxy or provided proxy instructions?

A: TorreyPines stockholders of record, other than those TorreyPines stockholders who have executed voting agreements, may change their vote at any time before their proxy is voted at the TorreyPines annual meeting in one of three ways. First, a stockholder of record of TorreyPines can send a written notice to the Corporate Secretary of TorreyPines stating that it would like to revoke its proxy. Second, a stockholder of record of TorreyPines can submit new proxy instructions either on a new proxy card, by telephone or via the Internet. Third, a stockholder of record of TorreyPines can attend the TorreyPines annual meeting and vote in person. Attendance alone will not revoke a proxy.

Any written notice of revocation or subsequent TorreyPines proxy card must be received by the Corporate Secretary of TorreyPines prior to the taking of the vote at TorreyPines 2009 annual meeting. Such written notice of revocation or subsequent TorreyPines proxy card should be hand delivered to the Corporate Secretary of TorreyPines or should be sent so as to be delivered to TorreyPines Therapeutics, Inc., P.O. Box 231386 Encinitas, CA 92032-1386, Attention: Investor Relations. Stockholders whose TorreyPines shares are held in street name should consult with their broker or nominee concerning the method for revoking their TorreyPines proxy. If a stockholder of record of TorreyPines has instructed a broker to vote its shares of TorreyPines common stock, the stockholder must follow directions received from its broker to change those instructions.

Q: Should I send in my stock certificates now?

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- A: No. If TorreyPines Proposal Nos. 2 and 3 are approved and effected, TorreyPines stockholders will exchange their stock certificates and will receive written instructions from TorreyPines transfer agent for exchanging their shares of TorreyPines common stock.

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Q: Who can help answer my questions?

A: If you are a TorreyPines stockholder and would like additional copies, without charge, of this joint proxy statement/prospectus or if you have questions about the merger, including the procedures for voting your shares, you should contact:
TorreyPines Therapeutics, Inc.

P.O. Box 231386

Encinitas, CA 92032-1386

Tel: (858) 623-5665

Attn: Investor Relations

FOR RAPTOR STOCKHOLDERS:

Q: Who is soliciting my proxy?

A: The proxy is being solicited of Raptor's stockholders by Raptor's board of directors.

Q: On what matters am I being asked to vote?

A: Raptor's stockholders are being asked to:

consider and vote upon a proposal to adopt the merger agreement;

consider and vote upon a proposal to elect four directors named herein to serve until the next annual meeting of the stockholders of Raptor or until their respective successors are duly elected and qualified;

consider and vote upon a proposal to ratify the appointment by the audit committee of Raptor's board of directors of Burr, Pilger & Mayer, LLP as Raptor's independent registered public accounting firm for the fiscal year ending August 31, 2009; and

consider and vote upon a proposal to adjourn the Raptor annual meeting, if necessary, to solicit additional proxies in the event there are not sufficient votes in favor of the adoption of the merger agreement.

Q: As a Raptor stockholder, how does Raptor's Board of Directors recommend that I vote?

A: After careful consideration, Raptor's board of directors recommends that Raptor's stockholders vote:

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FOR Proposal No. 1 to adopt the merger agreement;

FOR Proposal No. 2 to elect four directors named herein to serve until the next annual meeting of the stockholders of Raptor or until their respective successors are duly elected and qualified;

FOR Proposal No. 3 to ratify the appointment by the audit committee of Raptor's board of directors of Burr, Pilger & Mayer, LLP as Raptor's independent registered public accounting firm for the fiscal year ending August 31, 2009; and

FOR Proposal No. 4 to consider and vote upon an adjournment of the annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of adoption of the merger agreement.

To review the background of the merger and TorreyPines' board of directors' reasons for recommending the merger in greater detail, see the sections titled, "The Merger Background of the Merger" and "The Merger Reasons for the Merger" beginning on pages 83 and 88, respectively, of this joint proxy statement/prospectus.

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Q: How many shares of common stock of the combined company would I own assuming that I own 100,000 shares of Raptor common stock as of the closing of the merger?

A: The effective share split a Raptor stockholder will experience in this transaction will largely be dependent on the TorreyPines share price upon the date immediately preceding the closing date of this transaction. Assuming a reverse stock split of TorreyPines common stock immediately prior to the closing of the merger within the range of 10:1 to 70:1, a Raptor stockholder currently holding 100,000 shares of common stock of Raptor, would hold between approximately 43,962 and 6,280 shares of common stock of the combined company. For a more complete description of the relative holdings of TorreyPines stockholders and Raptor's stockholders with respect to the capital structure of the combined company, please see the sections titled, Matters Being Submitted to a Vote of TorreyPines Stockholders TorreyPines Proposal No. 2: Approval of Amendment to TorreyPines Certificate of Incorporation Effecting the Reverse Stock Split and The Merger Agreement Merger Consideration and Adjustment in this joint proxy statement/prospectus beginning on pages 128 and 109, respectively.

Q: What would my percent ownership in the combined company be assuming that I own 100,000 shares of Raptor common stock as of the closing of the merger?

A: As a result of the proposed merger your percent ownership in the combined company will be reduced by approximately 5% compared to the percent you currently own of Raptor common stock. Raptor currently has approximately 69 million shares of common stock outstanding. For example, if you hold 100,000 shares of Raptor's common stock then you currently own approximately 0.145% of Raptor's common stock. As a result of the merger, such percent ownership in the combined company would be reduced by 5% to 0.137%. For a more complete description of the relative holdings of TorreyPines stockholders and Raptor's stockholders with respect to the capital structure of the combined company, please see the sections titled, Matters Being Submitted to a Vote of TorreyPines Stockholders TorreyPines Proposal No. 2: Approval of Amendment to TorreyPines Certificate of Incorporation Effecting the Reverse Stock Split and The Merger Agreement Merger Consideration and Adjustment in this joint proxy statement/prospectus beginning on pages 128 and 109, respectively.

Q: Am I entitled to appraisal rights?

A: Holders of Raptor common stock are entitled to appraisal rights in connection with the merger pursuant to Section 262 of the DGCL. Failure to take any of the steps required under Section 262 of the DGCL on a timely basis may result in a loss of those appraisal rights. The provisions of the DGCL that grant appraisal rights and govern such procedures are attached as *Annex B* to this joint proxy statement/prospectus. For a more complete description of Raptor's stockholder's appraisal rights, see the section titled, The Merger Appraisal Rights.

Q: Will the Raptor stockholder rights plan be triggered as a result of the merger?

A: No. Raptor's board of directors adopted an amendment to the Raptor stockholder rights plan that excludes the signing of the merger agreement, the merger and the other transactions contemplated with TorreyPines from triggering the Raptor stockholder rights plan.

Q: What do I need to do now?

A: TorreyPines and Raptor urge you to read this joint proxy statement/prospectus carefully, including its annexes, and to consider how the merger affects you.

If you are a Raptor stockholder, you may provide your proxy instructions by mailing your signed proxy card in the enclosed return envelope.

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Please provide your proxy instructions only once and as soon as possible so that your shares can be voted at the respective annual meeting of stockholders of Raptor.

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Q: What happens if I return a signed and dated proxy card but do not indicate how to vote my proxy?

A: If you do not include instructions on how to vote your properly signed and dated proxy, your shares will be voted **FOR** adoption of the merger agreement, **FOR** the election of four directors to serve until the next annual meeting of the stockholders of Raptor or until their respective successors are duly elected and qualified, **FOR** the ratification of the appointment by the audit committee of Raptor's board of directors of Burr, Pilger & Mayer, LLP as Raptor's independent registered public accounting firm for the fiscal year ending August 31, 2009; and **FOR** approval of the adjournment of the annual meeting, if necessary, to solicit additional proxies in the event there are not sufficient votes in favor of the adoption of the merger agreement.

Q: What happens if I do not return a proxy card or otherwise provide proxy instructions?

A: If you are a Raptor stockholder, the failure to return your proxy card will have the same effect as voting against Raptor Proposal No. 1 and your shares will not be counted for purposes of determining whether a quorum is present at the Raptor annual meeting.

Q: May I vote in person?

A: If you are a stockholder of Raptor and your shares of Raptor common stock are registered directly in your name with Raptor's transfer agent, you are considered to be the stockholder of record with respect to those shares, and the proxy materials and proxy card are being sent directly to you by Raptor. If you are a Raptor stockholder of record, you may attend the annual meeting of Raptor stockholders to be held on September 28, 2009 and vote your shares in person. **Even if you plan to attend the Raptor annual meeting in person, Raptor requests that you sign and return the enclosed proxy to ensure that your shares will be represented at the Raptor annual meeting if you are unable to attend.**

Q: If my Raptor shares are held in street name by my broker, will my broker vote my shares for me?

A: If your shares of Raptor common stock are held in a brokerage account or by another nominee, you are considered the beneficial owner of shares held in street name, and the proxy materials are being forwarded to you together with a voting instruction card. As the beneficial owner, you are also invited to attend the annual meeting of Raptor stockholders. Because a beneficial owner is not the stockholder of record, you may not vote these shares in person at the Raptor annual meeting unless you obtain a proxy from the broker, trustee or nominee that holds your shares, giving you the right to vote the shares at the meeting. Additionally, unless your broker has discretionary authority to vote on certain matters, your broker will not be able to vote your shares of Raptor common stock without instructions from you. To make sure that your vote is counted, you should instruct your broker to vote your shares, following the procedure provided by your broker.

Q: May I change my vote after I have submitted a proxy or provided proxy instructions?

A: Raptor stockholders of record, other than those Raptor stockholders who have executed voting agreements, may change their vote at any time before their proxy is voted at the Raptor annual meeting:

if you are a Raptor registered stockholder, by filing a written notice of revocation bearing a later date than Raptor proxy with the Corporate Secretary of Raptor before the taking of the vote at Raptor's 2009 annual meeting;

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duly executing and submitting a later dated, properly completed Raptor proxy relating to the same shares and delivering it to the Corporate Secretary of Raptor before the taking of the vote at Raptor's 2009 annual meeting; or

attending the 2009 annual meeting and voting in person (although attendance at Raptor's 2009 annual meeting will not in and of itself constitute a revocation of Raptor proxy).

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Any written notice of revocation or subsequent Raptor proxy card must be received by the Corporate Secretary of Raptor prior to the taking of the vote at Raptor's 2009 annual meeting. Such written notice of revocation or subsequent Raptor proxy card should be hand delivered to the Corporate Secretary of Raptor or should be sent so as to be delivered to Raptor Pharmaceuticals Corp., 9 Commercial Blvd., Suite 200, Novato, CA 94949, Attention: Kim R. Tsuchimoto, Corporate Secretary. Stockholders whose Raptor shares are held in street name should consult with their broker or nominee concerning the method for revoking their Raptor proxy. If a stockholder of record of Raptor has instructed a broker to vote its shares of Raptor common stock, the stockholder must follow directions received from its broker to change those instructions.

Q: Will my rights as a Raptor stockholder change as a result of the merger?

A: Yes. You will become a TorreyPines (such name to be changed to Raptor Pharmaceutical Corp.) stockholder as a result of the merger and will have rights after the completion of the merger that are governed by Delaware law and TorreyPines' certificate of incorporation and bylaws. For further information regarding your rights as a TorreyPines stockholder following the merger, please see Comparison of Rights of Holders of TorreyPines Stock and Raptor Stock beginning on page 262 of this joint proxy statement/prospectus.

Q: Should I send in my stock certificates now?

A: No. If you are a Raptor stockholder, after the merger is consummated, you will receive written instructions from the exchange agent for exchanging your certificates representing shares of Raptor common stock for certificates representing shares of TorreyPines common stock. You will receive a cash payment for any fractional shares.

Q: Who can help answer my questions?

A: If you are a Raptor stockholder, and would like additional copies, without charge, of this joint proxy statement/prospectus or if you have questions about the merger, including the procedures for voting your shares, you should contact:
Raptor Pharmaceuticals Corp.

9 Commercial Blvd.

Suite 200

Novato, CA 94949

(415) 382-1390

Attn: Secretary

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SUMMARY

This summary highlights selected information from this joint proxy statement/prospectus and may not contain all of the information that is important to you. To better understand the merger and the other proposals being considered at the TorreyPines annual meeting and Raptor annual meeting, you should read this entire joint proxy statement/prospectus carefully, including the merger agreement, attached as Annex A and the other documents to which you are referred herein. For more information, please see the section titled, "Where You Can Find More Information" in this joint proxy statement/prospectus.

The Companies

TorreyPines Therapeutics, Inc.

P.O. Box 231386

Encinitas, CA 92023-1386

(858) 623-5665

TorreyPines initially incorporated in Nevada on July 29, 1997 as Axonyx Inc. In October 2006, Axonyx Inc. reincorporated in Delaware and changed its name to TorreyPines Therapeutics, Inc., or TorreyPines. TorreyPines is a biopharmaceutical company that has been committed to providing patients with better alternatives to existing therapies through the development and commercialization of small molecule product candidates. TorreyPines goal has been to develop versatile product candidates each capable of treating a number of diseases and disorders characterized by moderate to severe pain, including acute migraine, migraine prophylaxis and chronic pain, such as neuropathic pain. TorreyPines has no products available for sale and has incurred losses since its inception.

Raptor Pharmaceuticals Corp.

9 Commercial Blvd.

Suite 200

Novato, CA 94949

(415) 382-8111

Raptor is a publicly traded development-stage biotechnology company dedicated to speeding the delivery of new treatment options to patients by working to improve existing therapeutics through the application of highly specialized drug targeting platforms and formulation expertise. Raptor focuses on underserved patient populations where it believes that it can have the greatest potential impact. Raptor is developing drug therapies for the potential treatment of: genetic diseases including nephropathic cystinosis, or cystinosis, and Huntington's Disease, or HD; metabolic diseases including non-alcoholic steatohepatitis, or NASH, and aldehyde dehydrogenase, or ALDH2, deficiency, or Ethanol Intolerance; and liver diseases including primary liver cancer or hepatocellular carcinoma, or HCC, and hepatitis.

ECP Acquisition, Inc.

ECP Acquisition, Inc., or merger sub, is a wholly-owned subsidiary of TorreyPines, and was formed solely for the purposes of carrying out the merger.

Summary of the Merger

If the merger is completed, merger sub will merge with and into Raptor, with Raptor continuing as a wholly-owned subsidiary of TorreyPines. Immediately after the merger Raptor stockholders will hold 95% of the outstanding shares of common stock of the combined company, with TorreyPines stockholders holding 5% of the outstanding shares of common stock of the combined company. TorreyPines will assume outstanding and

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unexercised options and warrants to purchase Raptor common stock, and they will be converted into warrants and options, as applicable, to purchase TorreyPines common stock. Upon the effectiveness of one of the amendments to TorreyPines certificate of incorporation effecting the reverse stock split, referred to as the split effective time, the issued and outstanding shares of TorreyPines common stock immediately prior to the split effective time will be combined into a smaller number of shares of TorreyPines common stock. Depending on the ratio for the reverse stock split, each ten, eleven, twelve, thirteen, fourteen, fifteen, seventeen, twenty, twenty-five, thirty, thirty-five, forty, forty-five, fifty, fifty-five, sixty or seventy shares, of existing TorreyPines common stock held by a TorreyPines stockholder immediately prior to the split effective time will be converted into one new share of TorreyPines common stock. The number of shares of common stock issued and outstanding will therefore be reduced, depending upon the reverse stock split ratio determined by the TorreyPines board of directors and approved by the Raptor board of directors. The amendment to the restated certificate of incorporation that is filed to effect the reverse stock split, if any, will include only the reverse split ratio determined by the boards of directors of TorreyPines and Raptor, respectively, that causes the combined company's stock price to be at least \$4.00 per share and which is determined to be in the best interests of the stockholders of TorreyPines and Raptor, respectively, and all of the other proposed amendments at different ratios will be abandoned. The exact split ratio will be publicly announced by TorreyPines. The reverse stock split will also proportionately reduce the number of shares of TorreyPines common stock issued in the merger but it will not affect the percentages of the outstanding shares of the combined company owned by the TorreyPines stockholders and Raptor stockholders, respectively, described above following the completion of the merger. For a more complete description of the relative holdings of TorreyPines stockholders and Raptor's stockholders with respect to the capital structure of the combined company, please see the sections titled, *Matters Being Submitted to a Vote of TorreyPines Stockholders TorreyPines Proposal No. 2: Approval of Amendment to TorreyPines Certificate of Incorporation Effecting the Reverse Stock Split* and *The Merger Agreement Merger Consideration and Adjustment* in this joint proxy statement/prospectus beginning on pages 128 and 109, respectively.

The closing of the merger will occur no later than the third business day after the last of the conditions to the merger has been satisfied or waived, or at another time as TorreyPines and Raptor agree. TorreyPines and Raptor anticipate that the consummation of the merger will occur after the respective TorreyPines and Raptor annual meetings, sometime in the fourth quarter of 2009. However, because the merger is subject to a number of conditions, neither TorreyPines nor Raptor can predict exactly when the closing will occur or if it will occur at all. After completion of the merger, assuming that TorreyPines receives the required stockholder approval of TorreyPines Proposal No. 3, TorreyPines will be renamed Raptor Pharmaceutical Corp. For a more complete description of the merger please see the section titled, *The Merger Agreement* in this joint proxy statement/prospectus.

Reasons for the Merger

The combined company resulting from the merger will be a biopharmaceutical company focused on the development and commercialization of proprietary products that address important therapeutic needs for various diseases and disorders. TorreyPines and Raptor believe that the combined company will have the following potential advantages:

Pipeline. The combined company will have an expanded product candidate pipeline that is more diversified, and targets unmet and underserved markets. The pipeline will consist of six clinical programs either in, or ready to begin, Phase II or Phase III clinical trials as well as three preclinical programs, one of which is partnered with a large pharmaceutical company.

Markets. The combined company can better manage clinical development risk by having development capabilities across a wider spectrum of diseases and markets. Raptor's orphan product strategy of applying reformulated versions of already approved compounds to new disease indications may

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provide a balance to the development risks of TorreyPines' novel compounds for the potential treatment of pain. The orphan and non-orphan markets that may be addressed by the clinical and preclinical stage programs of the combined company represent well documented underserved or unmet medical needs.

Capital Structure. The combined company provides the opportunity to combine and reorganize both TorreyPines' and Raptor's capital structure and the contemplated listing on the NASDAQ Capital Market may provide the combined company with access to a more liquid market for the combined company's common stock.

Management Team. The combined company will be led by an experienced senior management team from Raptor who has significant experience in the development, registration, and commercialization of product candidates and a board of directors with representation from Raptor. The existing senior management team from TorreyPines will remain with a wholly-owned subsidiary of the combined company for a transition period and will focus on advancing TorreyPines' product candidates for the treatment of moderate to severe pain.

In addition to these potential advantages, each of the board of directors of TorreyPines and Raptor also considered other reasons for the merger, as described herein. For example, the board of directors of TorreyPines considered, among other things:

the addition of the four Raptor clinical development programs, and three preclinical stage programs, broadens the combined company's product pipeline;

the consideration of TorreyPines' efforts to pursue alternatives to the merger, including engaging in a merger transaction with another company, an asset sale of TorreyPines' pain program or undertaking a bankruptcy or liquidation of TorreyPines;

Raptor's more advanced stage clinical programs, especially for the treatment of cystinosis, offers the opportunity for filing a New Drug Application, or NDA, with the United States Food and Drug Administration, or FDA, in 2010 with a preliminary target of product launch and commercial revenues in 2011. Other ongoing clinical programs at Raptor include a Phase II clinical trial in NASH and the planned initiation of a Phase II study in HD. These trials may provide the combined company with clinical news flow and possibly partnering or licensing transactions over the next 12-18 months; and

the opportunity for TorreyPines' stockholders to potentially participate in the short and long-term value of Raptor's preclinical and clinical development programs as a result of the merger.

In addition, the Raptor's board of directors approved the merger based on a number of factors, including the following:

merging with a NASDAQ-listed company gives Raptor the opportunity to qualify for a NASDAQ Capital Markets listing, which may facilitate access to private and public equity markets and stockholder liquidity; and

the addition of TorreyPines' clinical programs.

Overview of the Merger Agreement

Merger Consideration and Adjustment

At the effective time of the merger,

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each share of Raptor common stock outstanding immediately prior to the effective time of the merger is expected to automatically convert into the right to receive the number of shares of TorreyPines

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common stock equal to the 303,982,102 shares of TorreyPines common stock to be issued in the merger divided by 69,145,047 shares of Raptor common stock outstanding as of the signing of the merger agreement plus 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options outstanding as of the signing of the merger agreement plus any additional shares of Raptor common stock and securities exercisable for or exchangeable or convertible into Raptor common stock that may be issued following the execution of the merger agreement and prior to the effective time of the merger, such calculation which is referred to as the exchange ratio, subject to adjustment to account for the reverse stock split;

each option to purchase shares of Raptor common stock outstanding and unexercised immediately prior to the effective time of the merger will be assumed by TorreyPines and will become an option to purchase shares of TorreyPines common stock equal to the product of the number of shares of Raptor common stock subject to the option multiplied by the exchange ratio, rounded down to the nearest whole number of shares of TorreyPines common stock, subject to adjustment to account for the reverse stock split; and

each warrant to purchase shares of Raptor common stock outstanding and unexercised immediately prior to the effective time of the merger will be assumed by TorreyPines and will become a warrant to purchase shares of TorreyPines common stock equal to the product of the number of shares of Raptor common stock issuable upon exercise of the Raptor warrant multiplied by the exchange ratio, rounded down to the nearest whole number of shares of TorreyPines common stock, subject to adjustment to account for the reverse stock split.

Conditions to Completion of the Merger

To consummate the merger, TorreyPines stockholders must approve:

the issuance of TorreyPines common stock and the resulting change in control of TorreyPines, which requires the affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting; and

the amendment to TorreyPines certificate of incorporation effecting a reverse stock split of TorreyPines common stock, at one of seventeen reverse split ratios: 1-for-10, 1-for-11, 1-for-12, 1-for-13, 1-for-14, 1-for-15, 1-for-17, 1-for-20, 1-for-25, 1-for-30, 1-for-35, 1-for-40, 1-for-45, 1-for-50, 1-for-55, 1-for-60 or 1-for-70, as described below, and a name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp., which requires the affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power outstanding on the record date for the TorreyPines annual meeting.

Upon the effectiveness of the amendment to TorreyPines certificate of incorporation effecting the reverse stock split, referred to as the split effective time, the issued shares of TorreyPines common stock immediately prior to the split effective time will be combined into a smaller number of shares. Depending on the ratio for the reverse stock split, each ten, eleven, twelve, thirteen, fourteen, fifteen, seventeen, twenty, twenty-five, thirty, thirty-five, forty, forty-five, fifty, fifty-five, sixty or seventy shares, of existing TorreyPines common stock held by a TorreyPines stockholder immediately prior to the split effective time will be converted into one new share of TorreyPines common stock. The number of shares of common stock issued and outstanding will therefore be reduced, depending upon the reverse stock split ratio determined by the TorreyPines board of directors and approved by the Raptor board of directors. The amendment to the restated certificate of incorporation that is filed to effect the reverse stock split, if any, will include only the reverse split ratio determined by the boards of directors of TorreyPines and Raptor, respectively, that causes the combined company's stock price to be at least \$4.00 per share and which is determined to be in the best interests of the stockholders of TorreyPines and Raptor, respectively, and all of the other proposed amendments at different ratios will be abandoned. The exact split ratio

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will be publicly announced by TorreyPines. Because the listing standards of the NASDAQ Capital Market will require TorreyPines to have, among other things, a \$4.00 per share minimum bid price, the reverse stock split will be necessary in order to consummate the merger.

In addition, Raptor stockholders must adopt the merger agreement which requires the affirmative vote of the holders of a majority of the shares of Raptor common stock outstanding on the record date and entitled to vote at the Raptor annual meeting.

In addition to obtaining stockholder approval and appropriate regulatory approvals, if any, each of the other closing conditions set forth in the merger agreement must be satisfied or waived. Among the closing conditions is the requirement that TorreyPines qualify its common stock to be issued in the merger for listing on the NASDAQ Capital Market on the closing date and that TorreyPines net cash, as calculated pursuant to merger agreement, be greater than zero dollars at the closing of the merger. For a more complete description of the closing conditions under the merger agreement, please see the section titled, *The Merger Agreement Conditions to the Completion of the Merger* in this joint proxy statement/prospectus.

No Solicitation

Subject to certain exceptions, each of TorreyPines and Raptor agreed that TorreyPines and Raptor and any of their respective subsidiaries will not, nor will either party or any of its subsidiaries authorize or permit any of the officers, directors, employees, agents, attorneys, accountants, advisors and representatives retained by it or any of its subsidiaries to, directly or indirectly:

solicit, initiate, encourage, induce or knowingly facilitate the making, submission or announcement of, any acquisition proposal, as defined below, or any action that could reasonably be expected to lead to an acquisition proposal;

furnish any information regarding such party or any of its subsidiaries to any person in connection with or in response to an acquisition proposal or an inquiry or indication of interest that could reasonably be expected to lead to an acquisition proposal;

engage in discussions or negotiations with any person with respect to any acquisition proposal;

approve, endorse or recommend an acquisition proposal; or

enter into any letter of intent or similar document or any contract contemplating or otherwise relating to an acquisition transaction, as defined below.

Termination of the Merger Agreement

Either TorreyPines or Raptor can terminate the merger agreement under certain circumstances, which would prevent the merger from being consummated.

Expenses and Reimbursement

If the merger agreement is terminated under certain circumstances, TorreyPines or Raptor, as applicable, will be required to reimburse the other party for certain expenses incurred in connection with the merger, up to a maximum of \$250,000.

Voting Agreements

In connection with the execution of the merger agreement, certain Raptor directors and officers entered into voting agreements pursuant to which, among other things, each of such persons agreed, solely in his capacity as a stockholder, to vote all of his shares of Raptor capital stock in favor of the adoption of the merger agreement,

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against any action that would result in a breach of the merger agreement by Raptor, against any proposal for any acquisition transaction, as defined in the merger agreement, other than the merger, between Raptor and any third person other than TorreyPines and merger sub and against any change in a majority of the board of directors of Raptor. As of July 27, 2009, the directors and officers of Raptor who entered into voting agreements collectively owned 7,412,500 shares of Raptor common stock, representing approximately 11% of the outstanding Raptor common stock.

In connection with the execution of the merger agreement, TorreyPines directors and officers entered into voting agreements with Raptor pursuant to which, among other things, each of such persons agreed, solely in his capacity as a stockholder, to vote all of his shares of TorreyPines common stock in favor of the approval of the issuance of the shares of TorreyPines common stock in the merger, the amendment to TorreyPines certificate of incorporation effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. and any action in furtherance of the foregoing, and against any action that would result in a breach of the merger agreement by TorreyPines and any proposal for any acquisition transaction, as defined in the merger agreement, between TorreyPines and any third person other than Raptor and against any change in a majority of the board of directors of TorreyPines. As of July 27, 2009, the directors and officers of TorreyPines, who entered into voting agreements, collectively owned 151,040 shares of TorreyPines common stock, representing approximately 1% of the outstanding TorreyPines common stock.

Management Following the Merger

Effective as of the closing of the merger, the combined company's officers are expected to include Christopher M. Starr, Ph.D., Chief Executive Officer, Todd C. Zankel, Ph.D., Chief Scientific Officer and Kim R. Tsuchimoto, Chief Financial Officer, Treasurer and Secretary, each of whom currently holds the same position at Raptor. The combined company will initially have a four member board of directors, comprised of the four individuals from Raptor's current board of directors, Christopher M. Starr, Ph.D., Raymond W. Anderson, Erich Sager and Richard L. Franklin, M.D., Ph.D.

Interests of Certain Directors and Officers of TorreyPines and Raptor

In considering the recommendation of the TorreyPines board of directors with respect to issuing shares of TorreyPines common stock pursuant to the merger agreement and the other matters to be acted upon by TorreyPines stockholders at the TorreyPines annual meeting, TorreyPines stockholders should be aware that certain members of the board of directors and executive officers of TorreyPines have interests in the merger that may be different from, or in addition to, interests they have as TorreyPines stockholders. For example, each of TorreyPines three executive officers have entered into amended and restated employment agreements with TPTX, Inc., a wholly-owned subsidiary of TorreyPines, that will become effective on the closing of the merger. Pursuant to such employment agreements, each of the three current TorreyPines executive officers will be paid their respective base salaries by TPTX, Inc. following the merger through February 28, 2010, whether or not they remain employees of TPTX, Inc. following the merger. In addition, such employment agreements provide for bonus payments to each of the three executives in the event that TPTX, Inc. is able to secure funding, a partnership, sale or similar transaction related to NGX426, TPTX, Inc.'s product candidate for pain, prior to February 28, 2010, in excess of \$10 million. Such employment agreements are discussed in greater detail in the section titled, "The Merger Interests of TorreyPines Directors and Executive Officers in the Merger Employment Agreements Following the Merger" in this joint proxy statement/prospectus.

As of July 27, 2009, all directors and executive officers of TorreyPines owned approximately 1% of the shares of TorreyPines common stock. The affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting is required for approval of TorreyPines Proposal Nos. 1 and 5. The affirmative vote of the

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holders of a majority of the TorreyPines common stock having voting power outstanding on the record date for the TorreyPines annual meeting is required for approval of TorreyPines Proposal Nos. 2 and 3. For the election of directors (Proposal No. 4), the four nominees receiving the most FOR votes from the shares of TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting will be elected. Certain TorreyPines officers and directors have also entered into voting agreements in connection with the merger. Such voting agreements are discussed in greater detail in the section titled, "Agreements Related to the Merger - Voting Agreements" in this joint proxy statement/prospectus.

In considering the recommendation of the Raptor board of directors with respect to adopting the merger agreement, Raptor stockholders should be aware that members of the board of directors and executive officers of Raptor have interests in the merger that may be different from, or in addition to, interests they have as Raptor stockholders. For example, following the consummation of the merger, all of Raptor's directors will continue to serve on the board of directors of the combined company and the management team of the combined company is expected to be composed of the current management team of Raptor. In addition, all of Raptor's directors and executive officers hold options to purchase shares of Raptor common stock, which options will be assumed by TorreyPines and become options to purchase shares of TorreyPines common stock following the consummation of the merger.

As of July 27, 2009, all directors and executive officers of Raptor owned approximately 11% of the shares of Raptor's common stock. The adoption of the merger agreement requires the affirmative vote of the holders of a majority of the shares of Raptor common stock outstanding on the record date and entitled to vote at the Raptor annual meeting. Certain Raptor officers and directors have also entered into voting agreements in connection with the merger. Such voting agreements and the Raptor proposals to which they relate are discussed in greater detail in the section titled, "Agreements Related to the Merger - Voting Agreements" in this joint proxy statement/prospectus.

Stock Options and Warrants

At the effective time of the merger, each outstanding stock option to purchase Raptor common stock not exercised immediately prior to the effective time of the merger, whether or not vested, will be assumed by TorreyPines and become exercisable (a) for such number of shares of TorreyPines common stock as is determined by multiplying the number of shares of Raptor common stock subject to the option by the exchange ratio and rounding that result down to the nearest whole number of shares of TorreyPines common stock, and (b) at a per share exercise price as is determined by dividing the existing exercise price of the option by the exchange ratio and rounding that result up to the nearest whole cent. Any restrictions on the exercise of any Raptor option assumed by TorreyPines will continue following the conversion and the term, exercisability, vesting schedules and other provisions of assumed Raptor options will generally remain unchanged; provided, that any Raptor options assumed by TorreyPines may be subject to adjustment to reflect changes in the combined company's capitalization after the effective time of the merger and that the TorreyPines board of directors will succeed to the authority of the Raptor board with respect to each assumed Raptor option.

At the effective time of the merger, each outstanding warrant to purchase shares of Raptor common stock not terminated or exercised immediately prior to the effective time of the merger will be assumed by TorreyPines and will become exercisable (a) for such number of shares of TorreyPines common stock as is determined by multiplying the number of shares of Raptor common stock subject to each warrant by the exchange ratio and rounding that result down to the nearest whole number of shares of TorreyPines common stock, and (b) at a per share exercise price determined by dividing the per share exercise price of the Raptor common stock subject to each warrant as in effect immediately prior to the effective time of the merger by the exchange ratio and rounding that result up to the nearest whole cent.

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For more information, please see the section titled, "The Merger Agreement - Merger Consideration and Adjustment" in this joint proxy statement/prospectus.

Material United States Federal Income Tax Consequences of the Merger

Each of TorreyPines and Raptor expects the merger to qualify as a reorganization within the meaning of Section 368(a) of the Internal Revenue Code of 1986, as amended, and it is a closing condition to the merger that TorreyPines and Raptor receive opinions of their respective counsel regarding such qualification. Assuming the merger's qualification as a reorganization, Raptor stockholders generally will not recognize gain or loss for United States federal income tax purposes upon the exchange of shares of Raptor common stock for shares of TorreyPines common stock, except with respect to cash received in lieu of fractional shares of TorreyPines common stock, depending on such Raptor stockholder's basis in such fractional share, and except for Raptor stockholders who exercise their appraisal rights with respect to the merger. Assuming the merger's qualification as a reorganization, TorreyPines stockholders will not recognize gain or loss for United States federal income tax purposes as a result of the merger. Tax matters are very complicated, and the tax consequences of the merger to a particular stockholder will depend in part on such stockholder's circumstances. Accordingly, you are urged to consult your own tax advisor for a full understanding of the tax consequences of the merger to you, including the applicability and effect of federal, state, local and foreign income and other tax laws. For more information, please see the section titled, "The Merger - Material U.S. Federal Income Tax Consequences of the Merger" in this joint proxy statement/prospectus.

Risk Factors

Both TorreyPines and Raptor are subject to various risks associated with their businesses and their industries. In addition, the merger, including the possibility that the merger may not be completed, poses a number of risks to each company and its respective stockholders, including the following risks:

Failure to complete the merger may harm TorreyPines' or Raptor's common stock price and future business and operations, and may require TorreyPines to file for bankruptcy, cease operations or liquidate and dissolve;

If the conditions to the merger are not met or waived, including the requirement that TorreyPines file an initial listing application under The NASDAQ Stock Market LLC's reverse merger rules and qualify its common stock to be issued in the merger for listing on the NASDAQ Capital Market on the closing date and that TorreyPines' net cash, as calculated pursuant to merger agreement, be greater than zero dollars at the closing of the merger, the merger will not occur;

Some of TorreyPines' and Raptor's officers and directors have conflicts of interest that may influence them to support or approve the merger;

The exchange ratio is not adjustable based on the market price of TorreyPines' or Raptor's common stock;

The merger may be completed even though material adverse changes may result from the announcement of the merger, industry-wide changes and other causes;

The market price of the combined company's common stock may decline as a result of the merger;

TorreyPines and Raptor stockholders may not realize a benefit from the merger commensurate with the ownership dilution they will experience in connection with the merger; and

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During the pendency of the merger, TorreyPines and Raptor may not be able to enter into a business combination with another party at a favorable price because of restrictions in the merger agreement.

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The risks associated with the merger and other risks are discussed in greater detail under the section titled, "Risk Factors" in this joint proxy statement/prospectus. TorreyPines and Raptor both encourage you to read and consider all of these risks carefully.

Regulatory Approvals

As of the date of this joint proxy statement/prospectus, neither TorreyPines nor Raptor is required to make filings or to obtain approvals or clearances from any antitrust regulatory authorities in the United States or other countries to consummate the merger. In the United States, TorreyPines and Raptor, respectively, must comply with applicable federal and state securities laws and the rules and regulations of the NASDAQ Stock Market and FINRA, respectively, in connection with the issuance of shares of TorreyPines common stock and the filing of this joint proxy statement/prospectus with the SEC. As of the date hereof, the registration statement of which this joint proxy statement/prospectus is a part has not become effective.

NASDAQ Stock Market LLC Listing

Prior to consummation of the merger, TorreyPines intends to file an initial listing application with the NASDAQ Capital Market pursuant to The NASDAQ Stock Market LLC reverse merger rules. Acceptance of the initial listing application and the listing of the shares of TorreyPines common stock on the NASDAQ Capital Market is a condition to closing the merger. Because the listing standards of the NASDAQ Capital Market will require TorreyPines to have, among other things, a \$4.00 per share minimum bid price, the reverse stock split will be necessary in order to consummate the merger, but there is no assurance that the reverse stock split will be sufficient from The NASDAQ Stock Market LLC's perspective in order to approve the listing application. If such application is accepted, TorreyPines anticipates that the combined company's common stock will be listed on the NASDAQ Capital Market upon the closing of the merger and will trade under the combined company's new name, Raptor Pharmaceutical Corp., and new trading symbol, RPTP.

Anticipated Accounting Treatment

The merger will be treated by TorreyPines as a reverse merger under the purchase method of accounting in accordance with United States generally accepted accounting principles. For accounting purposes, Raptor is considered to be acquiring TorreyPines in the merger.

Appraisal Rights

Under the Delaware General Corporation Law, referred to as the DGCL, Raptor stockholders are entitled to appraisal rights in connection with the merger. Under the DGCL, TorreyPines stockholders are not entitled to appraisal rights in connection with the merger. For more information about appraisal rights, see the provisions of Section 262 of the DGCL, attached to this joint proxy statement/prospectus as *Annex B*, and the section titled, "The Merger Appraisal Rights" in this joint proxy statement/prospectus.

Under the DGCL, TorreyPines' stockholders are not entitled to appraisal rights with respect to the reverse stock split, and TorreyPines will not independently provide stockholders with any such right.

Comparison of Stockholder Rights

Both TorreyPines and Raptor are incorporated under the laws of the State of Delaware and, accordingly, the rights of the stockholders of each are currently, and will continue to be, governed by the DGCL. If the merger is completed, Raptor stockholders will become stockholders of TorreyPines, and their rights will be governed by

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the DGCL, the bylaws of TorreyPines and, assuming TorreyPines Proposal Nos. 2 and/or 3 are approved by TorreyPines stockholders at the TorreyPines annual meeting, the certificate of incorporation, as amended by the amendment to TorreyPines certificate of incorporation attached to this joint proxy statement/prospectus as *Annex C*. The rights of TorreyPines stockholders contained in the certificate of incorporation, as amended, and bylaws of TorreyPines differ from the rights of Raptor stockholders under the certificate of incorporation and bylaws of Raptor, as more fully described under the section titled, *Comparison of Rights of Holders of TorreyPines Stock and Raptor Stock* in this joint proxy statement/prospectus.

Table of Contents**SELECTED HISTORICAL AND UNAUDITED PRO FORMA CONDENSED****COMBINED FINANCIAL DATA**

The following tables present summary historical financial data for TorreyPines and Raptor, summary unaudited pro forma condensed combined financial data for TorreyPines and Raptor, and comparative historical and unaudited pro forma per share data for TorreyPines and Raptor.

Selected Historical Consolidated Financial Data of TorreyPines

The following selected financial data for the five years ended December 31, 2008 are derived from the audited consolidated financial statements of TorreyPines Therapeutics, Inc. The financial data for the six month periods ended June 30, 2009 and 2008 are derived from unaudited financial statements. The unaudited financial statements include all adjustments, consisting of normal recurring accruals, which TorreyPines Therapeutics, Inc. considers necessary for a fair presentation of the financial position and the results of operations for these periods. Operating results for the six months ended June 30, 2009 are not necessarily indicative of the results that may be expected for the entire year ending December 31, 2009.

You should read the following financial information together with the information under the sections titled, TorreyPines Management's Discussion and Analysis of Financial Condition and Results of Operations and TorreyPines Business and TorreyPines financial statements and the related notes to these financial statements appearing elsewhere in this joint proxy statement/prospectus. Certain reclassifications have been made to prior period amounts to conform to the current presentation.

| | Six Months Ended June 30 (unaudited) | | Years Ended December 31, | | | | |
|---|---|-------------|--------------------------|-------------|-------------|-------------|-------------|
| | 2009 | 2008 | 2008 | 2007 | 2006 | 2005 | 2004 |
| (In thousands, except share and per share data) | | | | | | | |
| Statement of Operations Data: | | | | | | | |
| Revenue | \$ 280 | \$ 3,258 | \$ 6,071 | \$ 9,850 | \$ 9,850 | \$ 7,967 | \$ 3,551 |
| Operating expenses: | | | | | | | |
| Research and development | 916 | 10,751 | 18,949 | 27,977 | 22,353 | 17,317 | 11,379 |
| General and administrative | 2,010 | 3,199 | 5,801 | 5,643 | 3,971 | 2,588 | 2,399 |
| Loss on impairment of purchased patents | | | 3,074 | | | | |
| Purchased in-process research and development | | | | | 8,328 | | |
| Total operating expenses | 2,926 | 13,950 | 27,824 | 33,620 | 34,652 | 19,905 | 13,778 |
| Loss from operations | (2,646) | (10,692) | (21,753) | (23,770) | (24,802) | (11,938) | (10,227) |
| Other income (expense), net | (82) | (651) | (1,032) | 401 | (575) | 396 | (129) |
| Net loss | (2,728) | (11,343) | (22,785) | (23,369) | (25,377) | (11,542) | (10,356) |
| Dividends and accretion to redemption value of redeemable convertible preferred stock | | | | | | (4,434) | (2,593) |
| Net loss attributable to common stockholders | \$ (2,728) | \$ (11,343) | \$ (22,785) | \$ (23,369) | \$ (25,377) | \$ (15,976) | \$ (12,949) |
| Basic and diluted net loss per share attributable to common stockholders | \$ (0.17) | \$ (0.72) | \$ (1.45) | \$ (1.49) | \$ (8.18) | \$ (30.69) | \$ (25.99) |
| Shares used to compute basic and diluted net loss per share attributable to common stockholders | 15,982,391 | 15,743,875 | 15,748,967 | 15,717,984 | 3,100,852 | 520,588 | 498,127 |

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| | As of June 30, 2009 (unaudited) | 2008 | 2007 | As of December 31, | | |
|--|--|-------------|-------------|---------------------------|-------------|-------------|
| | | | | 2006 | 2005 | 2004 |
| | | | | (In thousands) | | |
| Selected Balance Sheet Data: | | | | | | |
| Cash and cash equivalents | \$ 1,175 | \$ 10,864 | \$ 32,500 | \$ 55,383 | \$ 28,757 | \$ 27,629 |
| Working capital | 1,269 | 5,746 | 24,299 | 43,694 | 24,806 | 24,357 |
| Total assets | 1,418 | 11,130 | 38,652 | 63,435 | 31,104 | 29,888 |
| Long-term debt, net of current portion | | 2,112 | 954 | 4,397 | 3,826 | 591 |
| Redeemable convertible preferred stock | | | | | 72,018 | 67,584 |
| Accumulated deficit | (121,914) | (119,186) | (96,401) | (73,032) | (58,850) | (42,874) |
| Total stockholders' equity (deficit) | 1,269 | 3,713 | 26,460 | 44,569 | (58,341) | (42,381) |

Table of Contents**Selected Historical Consolidated Financial Data of Raptor**

The following table shows selected historical consolidated financial and operating information for, and as of the end of, each of the periods indicated and should be read in conjunction with the information in the sections titled, Raptor's Management's Discussion and Analysis of Financial Condition and Results of Operation and Raptor's Business and Raptor's consolidated financial statements and the corresponding notes to those consolidated financial statements included elsewhere in this joint proxy statement/prospectus. The following tables set forth Raptor's consolidated balance sheet data as of May 31, 2009, August 31, 2008, 2007 and 2006, and its consolidated statements of operations data for the nine months ended May 31, 2009 and 2008 (unaudited) and the years ended August 31, 2008 and 2007, for the period from September 8, 2005 (inception) to August 31, 2006.

| | For the nine months ended May 31, 2008 (unaudited) | For the nine months ended May 31, 2009 (unaudited) | For the year ended August 31, 2008 | For the year ended August 31, 2007 | For the period from September 8, 2005 (inception) to August 31, 2006 |
|---|--|--|---------------------------------------|---------------------------------------|---|
| Revenues: | \$ | \$ | \$ | \$ | \$ |
| Operating expenses: | | | | | |
| General and administrative | 1,588,035 | 1,935,612 | 2,229,140 | 1,529,028 | 510,079 |
| Research and development | 3,641,400 | 5,369,922 | 5,558,871 | 2,246,057 | 499,238 |
| In-process research and development | 240,625 | | 240,625 | | |
| Total operating expenses | 5,470,060 | 7,305,534 | 8,028,636 | 3,775,085 | 1,009,317 |
| Loss from operations | (5,470,060) | (7,305,534) | (8,028,636) | (3,775,085) | (1,009,317) |
| Interest income | 51,583 | 32,930 | 77,871 | 143,760 | 43,528 |
| Interest expense | (103,044) | (1,876) | (103,198) | (751) | (3,461) |
| Net loss | \$ (5,521,521) | \$ (7,274,480) | \$ (8,053,963) | \$ (3,632,076) | \$ (969,250) |
| Net loss per share: | | | | | |
| Basic and diluted | \$ (0.15) | \$ (0.12) | \$ (0.19) | \$ (0.12) | \$ (0.18) |
| Weighted average shares outstanding used to compute: | | | | | |
| Basic and diluted | 37,882,220 | 60,411,732 | 42,439,379 | 31,497,782 | 12,495,425 |

| | May 31, 2009 (unaudited) | August 31, 2008 | August 31, 2007 | 2006 |
|--|--------------------------------|--------------------|--------------------|--------------|
| Balance Sheet Data: | | | | |
| Cash and cash equivalents | \$ 492,963 | \$ 7,546,912 | \$ 2,627,072 | \$ 3,648,538 |
| Working capital (deficit) | (135,982) | 6,659,226 | 2,493,651 | 3,598,428 |
| Total assets | 3,478,585 | 10,620,770 | 3,290,925 | 4,305,582 |
| Long-term portion of capital lease obligations | 7,770 | | 2,302 | 4,801 |
| Total liabilities | 800,223 | 1,003,280 | 332,816 | 158,806 |
| Total stockholders' equity | 2,678,362 | 9,617,490 | 2,958,109 | 4,146,776 |

Table of Contents**Selected Unaudited Pro Forma Condensed Combined Financial Data of TorreyPines and Raptor**

(In thousands, except per share amounts)

The following selected unaudited pro forma condensed combined financial information was prepared using the purchase method of accounting. For accounting purposes, Raptor is considered to be acquiring TorreyPines in the merger. TorreyPines' and Raptor's unaudited pro forma condensed combined balance sheet data assume that the merger took place on May 31, 2009 and combine Raptor's historical balance sheet at May 31, 2009 with TorreyPines' historical balance sheet at June 30, 2009. TorreyPines' and Raptor's unaudited pro forma condensed combined statement of operations data assume that the merger took place as of the beginning of the period presented. The unaudited pro forma condensed combined statement of operations data for the year ended August 31, 2008 combine Raptor's historical statement of operations for the year ended August 31, 2008 with TorreyPines' derived historical statement of operations for the year ended December 31, 2008. The unaudited pro forma condensed combined statement of operations data for the nine months ended May 31, 2009 combine Raptor's historical statement of operations for the nine months ended May 31, 2009 with TorreyPines' derived historical statement of operations for the nine months ended June 30, 2009.

The selected unaudited pro forma condensed combined financial data are presented for illustrative purposes only and are not necessarily indicative of the combined financial position or results of operations of future periods or the results that actually would have been realized had the entities been a single entity during these periods. The selected unaudited pro forma condensed combined financial data as of and for the nine months ended May 31, 2009 and for the year ended August 31, 2008 are derived from the unaudited pro forma condensed combined financial information and should be read in conjunction with that information. For more information, please see the section titled, "Unaudited Pro Forma Condensed Combined Financial Statements" in this joint proxy statement/prospectus.

| | For the Year Ended August 31, 2008 | For the Nine Months Ended May 31, 2009 |
|---|---|---|
| Unaudited Pro Forma Condensed Combined Statement of Operations Data: | | |
| Total revenue | \$ 6,943 | \$ 1,870 |
| Research and development expense | 28,875 | 9,506 |
| General and administrative expense | 7,989 | 5,421 |
| Loss on impairment of purchased patents | | 3,074 |
| In-process research and development | 241 | |
| Loss from operations | (30,162) | (16,131) |
| Net loss | \$ (32,947) | \$ (16,050) |

| | As of May 31, 2009 |
|---|-----------------------------------|
| Unaudited Pro Forma Condensed Combined Balance Sheet Data: | |
| Cash and cash equivalents | \$ 1,668 |
| Working capital | 433 |
| Total assets | 6,218 |
| Long-term obligations, less current portion | 8 |
| Stockholders' equity | 4,568 |

Table of Contents**Comparative Historical and Unaudited Pro Forma Per Share Data**

The following information does not give effect to the reverse stock split of TorreyPines common stock described in TorreyPines Proposal No. 2.

The information below reflects the historical net loss and book value per share of Raptor common stock and the historical net loss and book value per share of TorreyPines common stock in comparison with the unaudited pro forma net loss and book value per share after giving effect to the proposed merger of TorreyPines with Raptor on a purchase basis.

You should read the tables below in conjunction with the audited and unaudited financial statements of TorreyPines Therapeutics, Inc. included in this joint proxy statement/prospectus and audited and unaudited financial statements of Raptor included in this joint proxy statement/prospectus and the related notes and the unaudited pro forma condensed financial information and notes related to such financial statements included elsewhere in this joint proxy statement/prospectus.

TORREYPINES

| | Derived 12 Months Ended September 30, 2008 | Derived Nine Months Ended June 30, 2009 |
|---|---|--|
| Historical Per Common Share Data: | | |
| Net loss per common share basic and diluted | \$ (1.58) | \$ (0.55) |
| Book value per share | \$ 0.64 | \$ 0.08 |

RAPTOR

| | Year Ended August 31, 2008 | Nine Months Ended May 31, 2009 |
|---|---|---|
| Historical Per Common Share Data: | | |
| Net loss per common share basic and diluted | \$ (0.19) | \$ (0.12) |
| Book value per share | \$ 0.16 | \$ 0.04 |

TORREYPINES AND RAPTOR

| | Year Ended August 31, 2008 | Nine Months Ended May 31, 2009 |
|---|---|---|
| Combined Unaudited Pro Forma Per Share Data: | | |
| Net loss per combined share basic and diluted | \$ (0.10) | \$ (0.05) |
| Book value per combined share | | \$ 0.01 |

Table of Contents**MARKET PRICE AND DIVIDEND INFORMATION**

TorreyPines common stock currently trades on the NASDAQ Global Market under the symbol TPTX. The following table sets forth the range of high and low sales prices of TorreyPines common stock for the quarterly periods indicated, as reported by NASDAQ. Such quotations represent inter-dealer prices without retail mark up, mark down or commission and may not necessarily represent actual transactions.

| | High | Low |
|--------------------------------------|----------|---------|
| Year Ended December 31, 2009: | | |
| First Quarter | \$ 0.35 | \$ 0.15 |
| Second Quarter | 0.45 | 0.12 |
| Third Quarter (through August 27) | 0.69 | 0.07 |
| Year Ended December 31, 2008: | | |
| First Quarter | \$ 2.59 | \$ 1.26 |
| Second Quarter | 1.71 | 1.07 |
| Third Quarter | 1.28 | 0.44 |
| Fourth Quarter | 0.55 | 0.16 |
| Year Ended December 31, 2007: | | |
| First Quarter | \$ 8.75 | \$ 6.59 |
| Second Quarter | 7.52 | 6.10 |
| Third Quarter | 7.32 | 5.76 |
| Fourth Quarter | 6.15 | 2.26 |
| Year Ended December 31, 2006: | | |
| First Quarter | \$ 10.00 | \$ 6.64 |
| Second Quarter | 11.60 | 6.40 |
| Third Quarter | 9.12 | 6.64 |
| Fourth Quarter | 9.00 | 6.15 |

Raptor's common stock is quoted on the FINRA OTC Bulletin Board under the symbol RPTP. Prior to June 8, 2006, Raptor's common stock had not traded in the public market. The following table sets forth the quarterly high and low trading prices for Raptor's common stock for the period from June 8, 2006 through August 27, 2009, as reported by the OTC Bulletin Board, which reflects inter-dealer quotations, without retail mark-up, mark-down or commission and may not represent actual transactions.

| | High | Low |
|---------------------------------------|---------|---------|
| Year Ended December 31, 2009: | | |
| September 1, 2008 – November 30, 2008 | \$ 0.48 | \$ 0.12 |
| December 1, 2008 – February 29, 2009 | 0.39 | 0.10 |
| March 1, 2009 – May 31, 2009 | 0.38 | 0.15 |
| June 1, 2009 – August 27, 2009 | 0.50 | 0.29 |
| 2008 Fiscal Quarters: | | |
| September 1, 2007 – November 30, 2007 | \$ 0.66 | \$ 0.47 |
| December 1, 2007 – February 29, 2008 | 0.62 | 0.38 |
| March 1, 2008 – May 31, 2008 | 0.67 | 0.47 |
| June 1, 2008 – August 31, 2008 | 0.58 | 0.38 |
| 2007 Fiscal Quarters: | | |
| September 1, 2006 – November 30, 2006 | \$ 0.61 | \$ 0.46 |
| December 1, 2006 – February 28, 2007 | 0.75 | 0.54 |
| March 1, 2007 – May 31, 2007 | 1.29 | 0.58 |
| June 1, 2007 – August 31, 2007 | 0.76 | 0.41 |
| 2006 Fiscal Period: | | |
| June 8, 2006 – August 31, 2006 | \$ 0.85 | \$ 0.50 |

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On July 27, 2009, the last trading day prior to announcement of the merger, the closing price of TorreyPines common stock was \$0.09, for an aggregate value of TorreyPines of approximately \$1.4 million. Accordingly, if the merger had been consummated on that day, the value attributable to the Raptor capital stock, or to 95% of the combined company, would have equaled \$28.8 million.

The following table presents trading information for TorreyPines and Raptor's common stock for July 27, 2009 and August 27, 2009. July 27, 2009 was the last full trading day prior to the public announcement of the proposed merger. August 27, 2009 was the last practicable trading day for which information was available prior to the date of the first mailing of this joint proxy statement/prospectus.

| | TorreyPines Common Stock Close | Raptor Common Stock Close |
|-----------------|---|--|
| July 27, 2009 | \$ 0.09 | \$ 0.36 |
| August 27, 2009 | \$ 0.39 | \$ 0.38 |

Because the market price of TorreyPines common stock is subject to fluctuation, the market value of the shares of TorreyPines common stock that holders of Raptor common stock will be entitled to receive in the merger may increase or decrease.

Assuming approval of TorreyPines Proposal No. 3 and successful application for initial listing with the NASDAQ Capital Market, following the consummation of the merger, TorreyPines common stock will be listed on the NASDAQ Capital Market and will trade under the combined company's new name, Raptor Pharmaceutical Corp. and the new trading symbol, RPTP. Because the listing standards of the NASDAQ Capital Market will require TorreyPines to have, among other things, a \$4.00 per share minimum bid price, the reverse stock split will be necessary in order to consummate the merger, but there is no assurance that the reverse stock split will be sufficient from The NASDAQ Stock Market LLC's perspective in order to approve the listing application.

As of August 27, 2009, there were 330 registered holders of TorreyPines common stock. As of August 27, 2009, there were 49 registered holders of Raptor's common stock. For detailed information regarding the beneficial ownership of certain stockholders of the combined company upon consummation of the merger, see the section titled, Principal Stockholders of Combined Company in this joint proxy statement/prospectus.

Dividends

TorreyPines has never declared or paid any cash dividends on its capital stock nor does it intend to do so in the foreseeable future. Any future determination to pay cash dividends will be at the discretion of TorreyPines board of directors and will depend upon its financial condition, operating results, capital requirements, any applicable contractual restrictions and such other factors as TorreyPines board of directors deems relevant.

Raptor has never declared or paid any cash dividends on its capital stock nor does it intend to do so in the foreseeable future.

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RISK FACTORS

The combined company will be faced with a market environment that cannot be predicted and that involves significant risks, many of which will be beyond its control. In addition to the other information contained in this joint proxy statement/prospectus, you should carefully consider the material risks described below before deciding how to vote your shares of common stock.

Risks Related to the Merger

Failure to complete the merger could harm TorreyPines' or Raptor's common stock price and future business and operations and may result in TorreyPines filing for bankruptcy, ceasing operations or liquidating and dissolving.

If the merger is not completed, TorreyPines and Raptor are subject to the following risks:

if the merger agreement is terminated under certain circumstances, TorreyPines or Raptor will be required to pay the expenses of the other party, up to a maximum of \$250,000;

the price of TorreyPines' and Raptor's stock may decline; and

costs related to the merger, such as legal, accounting, certain financial advisory fees and costs associated with printing and mailing this joint proxy statement/prospectus, which TorreyPines and Raptor estimate will total approximately \$350,000 per company, must be paid even if the merger is not completed.

In addition, if the merger agreement is terminated and TorreyPines' or Raptor's board of directors determines to seek another business combination, there can be no assurance that it will be able to find a partner willing to provide equivalent or more attractive consideration than the consideration to be provided by each party in the merger. If the merger is not completed and TorreyPines is unable to complete a financing or strategic transaction, it does not expect to be able to continue as a going concern and may be required to liquidate in a voluntary dissolution under Delaware law or to seek protection under the provisions of the U.S. Bankruptcy Code.

If the conditions to the merger are not met, the merger will not occur.

Even if the merger is adopted by the stockholders of Raptor, specified conditions must be satisfied or waived to complete the merger. These conditions are described in detail in the merger agreement, and include the requirement that TorreyPines file an initial listing application under The NASDAQ Stock Market LLC's reverse merger rules and qualify its common stock to be issued in the merger for listing on the NASDAQ Capital Market on the closing date and that TorreyPines' net cash, as calculated pursuant to merger agreement, be greater than \$0 at the closing of the merger. Because the listing standards of the NASDAQ Capital Market will require TorreyPines to have, among other things, a \$4.00 per share minimum bid price, the reverse stock split will be necessary in order to consummate the merger, but there is no assurance that the reverse stock split will be sufficient from The NASDAQ Stock Market LLC's perspective in order to approve the listing application. TorreyPines and Raptor cannot assure you that all of the conditions will be satisfied. If the conditions are not satisfied or waived, the merger will not occur or will be delayed, TorreyPines and Raptor each may lose some or all of the intended benefits of the merger, and if TorreyPines is unable to complete another financing or strategic transaction, it does not expect to be able to continue as a going concern and may be required to liquidate in a voluntary dissolution under Delaware law or to seek protection under the provisions of the U.S. Bankruptcy Code.

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Some of TorreyPines and Raptor's officers and directors have conflicts of interest that may influence them to support or approve the merger.

Certain officers and directors of TorreyPines and Raptor participate in arrangements that provide them with interests in the merger that are different from yours, including, among others, their continued service as an officer or director of the combined company, retention and severance benefits, continued indemnification and the potential ability to sell an increased number of shares of common stock of the combined company. For example, each of TorreyPines' three executive officers are party to employment agreements with TPTX, Inc., a wholly-owned subsidiary of TorreyPines, that will become effective on the closing of the merger, assuming the TorreyPines stockholders approve the merger. Pursuant to the employment agreements each of the current TorreyPines executive officers will be paid by TPTX, Inc. following the merger through February 28, 2010, whether or not they remain employees of TPTX, Inc. following the merger. In addition, the employment agreements provide for bonus payments to each of the executives in the event that TPTX, Inc. is able to secure funding, a partnership, sale or similar transaction related to NGX426 in excess of \$10 million prior to February 28, 2010. Additionally, following the consummation of the merger, all of Raptor's directors will continue to serve on the board of directors of the combined company and the management team of the combined company is expected to be composed of the management team of Raptor. Further, all of Raptor's directors and executive officers hold options to purchase shares of Raptor common stock, which options will be assumed by TorreyPines and become options to purchase shares of TorreyPines common stock following the consummation of the merger.

These interests, among others, may influence the officers and directors of TorreyPines and Raptor to support or approve the merger. For a more detailed discussion see the sections titled, "The Merger Interests of TorreyPines' Directors and Executive Officers in the Merger" and "The Merger Interests of Raptor's Directors and Executive Officers in the Merger" in this joint proxy statement/prospectus.

The exchange ratio is not adjustable based on the market price of TorreyPines or Raptor common stock so the merger consideration at the closing may have a larger or smaller value than at the time the merger agreement was signed.

The merger agreement describes the method for calculating the exchange ratio for the Raptor common stock, and that exchange ratio is only subject to adjustment to account for (i) stock splits, stock dividends, reverse stock splits, reclassifications, recapitalizations or similar events, such as the reverse stock split discussed in this joint proxy statement/prospectus and (ii) certain additional shares of Raptor common stock that may be issued following the execution of the merger agreement and prior to the effective time of the merger. Any changes in the market price of the TorreyPines or Raptor common stock will not affect the number of shares Raptor stockholders will be entitled to receive pursuant to the merger without taking into effect the proposed reverse stock split. Therefore, if the market price of TorreyPines common stock declines from the market price on the date of the merger agreement prior to the closing of the merger, Raptor stockholders could receive merger consideration with considerably less value. Similarly, if the market price of the TorreyPines common stock increases from the market price on the date of the merger agreement prior to the closing of the merger, Raptor stockholders could receive merger consideration with considerably more value than their shares of Raptor common stock and the TorreyPines stockholders immediately prior to the merger will not be compensated for the increased market value of the TorreyPines common stock. The merger agreement does not include a price-based termination right. Because the exchange ratio does not adjust as a result of changes in the value of TorreyPines common stock for each one percentage point that the market value of TorreyPines common stock declines, there is a concomitant one percentage point decline in the value of the total merger consideration issued to Raptor stockholders. For example, on July 27, 2009, the date of the merger agreement, the closing price of TorreyPines common stock, as reported on the NASDAQ Global Market, was \$0.09 per share. Assuming that a total of 303,982,102 shares of TorreyPines common stock are issued to Raptor stockholders upon the closing of the merger at a per share value of \$0.09 per share, the aggregate merger consideration to be issued to Raptor stockholders in the merger would be approximately \$27.4 million. If, however, the closing price of TorreyPines common stock prior to the date of closing of the merger had declined from \$0.09 per share to, for example, \$0.07 per share, a

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decline of 22%, the aggregate merger consideration to be issued to Raptor stockholders in the merger would decrease from approximately \$27.4 million to approximately \$21.3 million, a decline of \$6.2 million or 22%.

The merger may be completed even though material adverse changes may result from the announcement of the merger, industry-wide changes and other causes.

In general, either TorreyPines or Raptor can refuse to complete the merger if there is a material adverse change affecting the other party between July 27, 2009, the date of the merger agreement, and the closing. However, certain types of changes do not permit either party to refuse to complete the merger, even if such change would have a material adverse effect on TorreyPines or Raptor, including:

changes due to the announcement or pendency of the merger;

changes attributable to the U.S. economy or industry in which TorreyPines or Raptor competes;

changes resulting from or relating to any change in accounting requirements or principles or any change in applicable laws, rules or regulations or the interpretation thereof; or

changes resulting from a change in the stock price or trading volume of TorreyPines or Raptor, excluding any underlying effect that may have caused such change.

If adverse changes occur but TorreyPines and Raptor still complete the merger, the combined company's stock price may suffer. This in turn may reduce the value of the merger to the stockholders of Raptor.

The market price of the combined company's common stock may decline as a result of the merger.

The market price of the combined company's common stock may decline as a result of the merger for a number of reasons including if:

a decline in the liquidity of the combined company's stock following the merger;

the combined company does not achieve the perceived benefits of the merger as rapidly or to the extent anticipated by financial or industry analysts;

the effect of the merger on the combined company's business and prospects is not consistent with the expectations of financial or industry analysts; or

investors react negatively to the effect on the combined company's business and prospects from the merger.

TorreyPines and Raptor stockholders may not realize a benefit from the merger commensurate with the ownership dilution they will experience in connection with the merger.

If the combined company is unable to realize the strategic and financial benefits currently anticipated from the merger, TorreyPines' stockholders will have experienced substantial dilution and Raptor's stockholders will have experienced dilution, of their respective ownership interests without receiving any commensurate benefit.

During the pendency of the merger, TorreyPines and Raptor may not be able to enter into a business combination with another party at a favorable price because of restrictions in the merger agreement, which could adversely affect their respective business.

Covenants in the merger agreement impede the ability of TorreyPines and Raptor to make acquisitions or complete other transactions that are not in the ordinary course of business pending completion of the merger. As a result, if the merger is not completed, the parties may be at a disadvantage to their competitors. In addition, while the merger agreement is in effect and subject to very narrowly defined exceptions, neither party will directly or indirectly:

solicit, initiate, encourage, induce or knowingly facilitate the making, submission or announcement of, any acquisition proposal, as defined below, or any action that could reasonably be expected to lead to an acquisition proposal;

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furnish any information regarding such party or any of its subsidiaries to any person in connection with or in response to an acquisition proposal or an inquiry or indication of interest that could reasonably be expected to lead to an acquisition proposal;

engage in discussions or negotiations with any person with respect to any acquisition proposal;

approve, endorse or recommend an acquisition proposal; or

enter into any letter of intent or similar document or any contract contemplating or otherwise relating to an acquisition transaction, as defined below.

Any such transaction could be favorable to such party's stockholders.

Certain provisions of the merger agreement may discourage third parties from submitting alternative takeover proposals, including proposals that may be superior to the arrangements contemplated by the merger agreement.

The terms of the merger agreement prohibit each of TorreyPines and Raptor from soliciting alternative takeover proposals or cooperating with persons making unsolicited takeover proposals, except in limited circumstances when such party's board of directors determines in its good faith judgment that an unsolicited alternative takeover proposal is or is reasonably likely to lead to a superior takeover proposal and is reasonably capable of being consummated and that failure to cooperate with the proponent of the proposal could reasonably be considered a breach of the board's fiduciary duties.

Because Raptor's business will constitute the substantial majority of the business of the combined company after the closing of the merger, if any of the events described in Risks Related to Raptor occur, those events could cause the potential benefits of the merger not to be realized and the market price of the combined company's common stock to decline.

Because of TorreyPines' limited operations, the combined company's business immediately following the merger will primarily be the business conducted by Raptor immediately prior to the merger. As a result, the risks described below under Risks Related to Raptor are significant risks to the combined company if the merger is completed. To the extent any of the events in the risks described below under Risks Related to Raptor occur, those events could cause the potential benefits of the merger not to be realized and the market price of the combined company's common stock to decline.

Risks Related to TorreyPines

In addition to the other information contained in this joint proxy statement/prospectus, you should carefully consider the material risks described below. As discussed above, TorreyPines has entered into the merger agreement with merger sub and Raptor pursuant to which merger sub will merge with and into Raptor, with Raptor as the surviving corporation becoming a wholly-owned subsidiary of TorreyPines. TorreyPines has effectively ceased all business operations related to the development of its product candidates to focus its efforts on the completion of the merger with Raptor and a possible strategic transaction related to its product candidates to the extent permitted under the merger agreement. Following the completion of the merger, the current management and board of directors of TorreyPines will have no control over the ultimate decisions regarding the combined company's operations and business, including whether the combined company will elect to dispose of TorreyPines' product candidates in a strategic transaction, reinitiate their development, abandon them entirely or any combination of the foregoing. Most of the TorreyPines risk factors described below relate to TorreyPines' current product candidates and related matters, and will only be relevant if the combined company attempts to continue to develop TorreyPines' product candidates, which it may never do. Prior to executing the merger agreement with Raptor, TorreyPines' board of directors approved a Plan of Liquidation and Dissolution

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and called a stockholder meeting to vote on that plan, which meeting was cancelled as a condition to the execution of the merger agreement. If TorreyPines is unable to complete the merger or another financing or strategic transaction, it does not expect to be able to continue as a going concern and may be required to liquidate in a voluntary dissolution under Delaware law or to seek protection under the provisions of the U.S. Bankruptcy Code. Most, if not all, of the combined company's business immediately following the merger will be the business conducted by Raptor immediately prior to the merger, and most if not all of the risk factors related to TorreyPines' business in this joint proxy statement/prospectus will change from those described herein based on TorreyPines' business to date and otherwise may no longer be applicable to the combined company. TorreyPines encourages you to review the section titled, Risk Related to Raptor appearing elsewhere in this joint proxy statement/prospectus for a description of the substantial portion of the expected risks of the combined company if the merger is approved and completed.

TorreyPines may not be able to complete the merger with Raptor and failure to do so could adversely affect its business.

TorreyPines cannot assure you that it will close the pending merger with Raptor in a timely manner or at all. TorreyPines consideration and completion of the merger is subject to a variety of risks that could materially and adversely affect TorreyPines business and financial results, including risks that it will forego strategic opportunities while the closing of the merger is pending; and risks inherent in negotiating and completing any transaction. In particular, one condition to the closing of the merger is that TorreyPines must have Net Cash (as defined in the merger agreement) upon the closing of the merger greater than zero dollars. While TorreyPines has and will continue to expend substantial effort to limit its expenses and preserve its remaining cash, unforeseen liabilities or expenses, in some cases over which it has no control, may arise that could make satisfaction of this closing condition difficult or impossible. If TorreyPines does not close the merger with Raptor, TorreyPines board of directors may elect to attempt to complete another strategic transaction similar to the merger or otherwise, or may determine that TorreyPines should file for bankruptcy, cease operations or liquidate and dissolve.

Net Cash is defined in the merger agreement, generally, as the sum of (a) (i) TorreyPines' cash and cash equivalents, short-term investments, net and restricted cash, and (ii) all tax refunds and refunds of prepaid expenses due and owing to TorreyPines or any of its subsidiaries that have not been received as of the closing of the merger agreement, minus (b) the sum of all liabilities and obligations of TorreyPines and any of its subsidiaries (other than all costs and expenses which are the exclusive responsibility of Raptor as described in the merger agreement).

TorreyPines may not be able to continue as a going concern. TorreyPines will need substantial additional funds to continue operations, which the merger with Raptor may not provide and which TorreyPines may not be able to raise on favorable terms, or at all.

TorreyPines would need substantial additional funds in order to initiate any further preclinical studies and clinical trials and to fund its development operations and has not been able to obtain any such financing. TorreyPines' independent registered public accounting firm has included an explanatory paragraph in their report on TorreyPines' 2008 financial statements related to the uncertainty and substantial doubt of TorreyPines ability to continue as a going concern. TorreyPines believes that its cash and cash equivalents, which were approximately \$1.2 million at June 30, 2009, will only fund its operations, independent of the merger with Raptor, through the third quarter, and possibly into the fourth quarter, of 2009. Although TorreyPines intends that the merger with Raptor will enable it to have sufficient funds to continue as a going concern, there is no assurance that the combined entity will have sufficient capital to fund its operations beyond the first quarter of 2010 or be able to complete a future financing or corporate transaction, either on favorable terms or at all. If the merger is not completed and TorreyPines is unable to complete a financing or strategic transaction, it does not expect to be able to continue as a going concern and may be required to liquidate in a voluntary dissolution under Delaware law or to seek protection under the provisions of the U.S. Bankruptcy Code.

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TorreyPines' forecast of the period of time through which its financial resources will be adequate to support its operations is a forward-looking statement and involves risks and uncertainties, and actual results could vary as a result of a number of factors, including the factors discussed elsewhere in these risk factors. TorreyPines has based this estimate on assumptions that may prove to be wrong, and TorreyPines could utilize its available capital resources sooner than it currently expects. If TorreyPines is able to obtain funds through arrangements with collaborative partners or others that require TorreyPines to relinquish rights to intellectual property or product candidates that it would otherwise seek to develop or commercialize itself this may have a material adverse effect on TorreyPines business, results of operations, financial condition or cash flow.

TorreyPines may need to liquidate in a voluntary dissolution under Delaware law or to seek protection under the provisions of the U.S. Bankruptcy Code, and in that event, it is unlikely that stockholders would receive any value for their shares.

TorreyPines has incurred net operating losses every year since TorreyPines inception. As of June 30, 2009, TorreyPines had an accumulated deficit of approximately \$121.9 million and has been unable to raise the necessary capital to continue TorreyPines existing operations. TorreyPines is currently working to complete the proposed merger with Raptor. TorreyPines cannot assure its stockholders that any actions that it takes would raise or generate sufficient capital to fully address the uncertainties of its financial position. As a result, TorreyPines may be unable to realize value from its assets and discharge its liabilities in the normal course of business. If TorreyPines is unable to settle its obligations to its creditors or if TorreyPines is unable to consummate the merger with Raptor it would likely need to liquidate in a voluntary dissolution under Delaware law or to seek protection under the provisions of the U.S. Bankruptcy Code. In that event, TorreyPines or a trustee appointed by the court may be required to liquidate TorreyPines' assets. In such event, TorreyPines might realize significantly less value from its assets than their carrying values on its financial statements. The funds resulting from the liquidation of TorreyPines assets would be used first to satisfy obligations to creditors before any funds would be available to TorreyPines stockholders, and any shortfall in the proceeds would directly reduce the amounts available for distribution, if any, to TorreyPines creditors and to TorreyPines stockholders. In the event TorreyPines is required to liquidate under Delaware law or the federal bankruptcy laws, it is highly unlikely that stockholders would receive any value for their shares. TorreyPines board of directors approved a Plan of Liquidation and Dissolution on May 19, 2009. TorreyPines previously convened a special meeting of its stockholders to consider the Plan of Liquidation and Dissolution, which meeting was adjourned twice because of insufficient support from TorreyPines' stockholders and which its board of directors cancelled in connection with TorreyPines' execution of the merger agreement. In the event TorreyPines is unable to complete the merger with Raptor, it is likely that it will seek protection under the provisions of the U.S. Bankruptcy Code or, if TorreyPines' board of directors calls another special meeting of its stockholders to consider the Plan of Liquidation and Dissolution and TorreyPines' stockholders approve the Plan of Liquidation and Dissolution, liquidate in a voluntary dissolution under Delaware law.

TorreyPines is seeking to maximize the value of its assets, and address its liabilities and raise additional capital for its existing business. TorreyPines is attempting to pursue asset out-licenses, asset sales, mergers or similar strategic transactions with respect to its product candidates. TorreyPines may be unable to satisfy its liabilities and can provide no assurances that it can be successful in completing the merger with Raptor or executing a strategic transaction with respect to its product candidates.

Due to TorreyPines financial position, it is unable to initiate further preclinical studies or clinical trials. TorreyPines is actively working to complete the merger with Raptor with the goal of maximizing the value of its assets. There are substantial challenges and risks which will make it difficult to successfully implement the merger. For example, under the terms of the merger agreement, TorreyPines would need Raptor's consent to complete any strategic transaction with respect to TorreyPines' product candidates. Even if TorreyPines decides to pursue a strategic transaction with respect to its product candidates, it may be unable to do so on acceptable terms, if at all. In the event TorreyPines is unable to complete the merger with Raptor and, if the merger is not consummated, is unable to complete a strategic transaction with respect to its product candidates, TorreyPines

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may be forced to liquidate in a voluntary dissolution under Delaware law or to seek protection under the provisions of the U.S. Bankruptcy Code.

Stockholders should recognize that in TorreyPines efforts to address its liabilities and fund future operations and development of its product candidates, if TorreyPines is unable to complete the merger with Raptor it may pursue strategic alternatives that result in the stockholders of TorreyPines having little or no continuing interest in the assets of TorreyPines as stockholders or otherwise. In such circumstances, TorreyPines will continue to evaluate TorreyPines alternatives in light of its cash position, including the possibility that it may need to liquidate in a voluntary dissolution under Delaware law or to seek protection under the provisions of the U.S. Bankruptcy Code.

TorreyPines is currently not in compliance with NASDAQ rules regarding the minimum bid price or the minimum required stockholders equity and is at risk of being delisted from the NASDAQ Global Market, which could prevent TorreyPines from completing the merger with Raptor and may subject it to the SEC's penny stock rules and decrease the liquidity of TorreyPines common stock.

TorreyPines received a NASDAQ staff deficiency letter dated August 21, 2008 indicating that, for the prior 30 consecutive days, the bid price for TorreyPines' common stock had closed below the minimum bid price of \$1.00 per share as required for continued inclusion of the NASDAQ Global Market under Marketplace Rule 4450(a)(5) (now Rule 5450(a)(1)). In accordance with Marketplace Rule 4450(e)(2) (now Rule 5450(a)(1)), TorreyPines had 180 calendar days to regain compliance with the minimum bid price requirement of \$1.00 per share. In addition, as of March 25, 2009, the market value of TorreyPines publicly held shares was less than \$5 million, which is the minimum market value of publicly held shares required for continued listing under the NASDAQ Global Market's Marketplace Rules. However, NASDAQ temporarily suspended, through July 20, 2009, the application of the continued listing requirements related to minimum bid price and minimum market value of publicly held shares for listing on the NASDAQ Global Market. Assuming the suspension is not extended, TorreyPines will have until November 19, 2009, to regain compliance with the minimum bid price requirement of \$1.00 per share. If TorreyPines does not regain compliance by the end of such period, and does not elect or is unable to transfer to the NASDAQ Capital Market, NASDAQ will provide written notification that TorreyPines' common stock will be delisted, after which TorreyPines may appeal the staff determination to the NASDAQ Listing Qualifications Panel if it so chooses.

In addition, as of December 31, 2008, TorreyPines stockholders' equity was less than \$10 million, which is the minimum required stockholders equity for continued listing on the NASDAQ Global Market. On March 31, 2009 TorreyPines received a letter from the Listing Qualifications Department of NASDAQ notifying TorreyPines that based on its stockholders' equity as reported in its Annual Report on Form 10-K for the year ended December 31, 2008, TorreyPines does not comply with the minimum stockholders' equity requirement of \$10 million for continued listing on The NASDAQ Global Market as set forth in NASDAQ Marketplace Rule 4450(a)(3) (now Rule 5450(b)(1)(A)). TorreyPines provided a plan to regain compliance with the minimum stockholder's equity requirement to NASDAQ and TorreyPines was granted an extension through July 14, 2009 to gain compliance. On July 14, 2009 TorreyPines received a letter from the Listing Qualifications Staff of The NASDAQ Stock Market notifying TorreyPines that it did not comply with the minimum \$10 million stockholders' equity requirement for continued listing set forth in Listing Rule 5450(b)(1)(A). TorreyPines requested a hearing before the NASDAQ Listing Qualifications Panel to review the Staff determination to delist TorreyPines' common stock. The request for a hearing stayed the Staff determination to delist TorreyPines' common stock until the Panel renders a determination following the hearing. The hearing is scheduled for August 20, 2009.

If following the NASDAQ Listing Qualifications Panel hearing, TorreyPines has not been granted additional time to regain compliance with the NASDAQ listing requirements, TorreyPines expects that it would be delisted from the NASDAQ Global Market. One of the conditions to the completion of the merger with Raptor is that TorreyPines continue to be listed on either the NASDAQ Capital Market or, if agreed to by Raptor, the

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NASDAQ Global Market, as of the closing of the merger. If TorreyPines is delisted from the NASDAQ Global Market and is not listed on the NASDAQ Capital Market, it would be unable to complete the merger without Raptor's waiver of this listing condition, which it does not expect Raptor would grant. Following any such delisting, TorreyPines common stock may be traded over-the-counter on the OTC Bulletin Board or in the pink sheets. These alternative markets, however, are generally considered to be less efficient than, and not as broad as, the NASDAQ Global Market. Many OTC Bulletin Board stocks trade less frequently and in smaller volumes than securities traded on the NASDAQ markets, which could have a material adverse effect on the liquidity of TorreyPines common stock. If TorreyPines common stock is delisted from the NASDAQ Global Market, there may be a limited market for TorreyPines stock, trading in TorreyPines stock may become more difficult and TorreyPines share price could decrease even further. In addition, if TorreyPines common stock is delisted, TorreyPines ability to raise additional capital may be impaired.

Specifically, you may not be able to resell your shares of common stock at or above the price you paid for such shares or at all. In addition, class action litigation has often been instituted against companies whose securities have experienced periods of volatility in market price. Any such litigation brought against TorreyPines could result in substantial costs and a diversion of management's attention and resources, which could hurt TorreyPines business, operating results and financial condition.

In addition, TorreyPines common stock may become subject to penny stock rules. The SEC generally defines penny stock as an equity security that has a market price of less than \$5.00 per share, subject to certain exceptions. TorreyPines is not currently subject to the penny stock rules because TorreyPines common stock qualifies for an exception to the SEC's penny stock rules for companies that have an equity security that is quoted on the NASDAQ Stock Market. However, if TorreyPines is delisted, TorreyPines common stock would become subject to the penny stock rules, which impose additional sales practice requirements on broker-dealers who sell TorreyPines common stock. If TorreyPines common stock was considered penny stock, the ability of broker-dealers to sell TorreyPines common stock and the ability of TorreyPines stockholders to sell their shares in the secondary market would be limited and, as a result, the market liquidity for TorreyPines common stock would be adversely affected. TorreyPines cannot assure stockholders that trading in TorreyPines securities will not be subject to these or other regulations in the future.

TorreyPines, through its wholly-owned subsidiary TPTX, Inc., entered into employment agreements with each of its key executives that may require material payments in connection with their continued service with TPTX, Inc. following the closing of the merger.

As part of the execution of the Merger Agreement, TorreyPines, through its subsidiary TPTX, Inc., entered into second amended and restated employment agreements with each of its three key executive officers which agreements would become effective upon the closing of the merger and would remain effective through February 28, 2010 unless sooner terminated. Pursuant to the amended and restated employment agreements, each of the executives will continue to receive his or her current base salary through February 28, 2010 and the executives would also be eligible for certain incentive payments related to strategic transactions that may be completed with respect to NGX426. These payments (excluding the possible incentive payments) will reduce TorreyPines' Net Cash at the closing of the merger, which may result in a closing condition to the merger not being satisfied.

TorreyPines will need substantial additional funding and may be unable to raise capital when needed, which would force it to delay further, reduce or eliminate its development programs or commercialization efforts.

TorreyPines will need to raise substantial additional capital in the future and additional funding requirements will depend on, and could increase significantly as a result of, many factors, including:

the rate of progress and cost of clinical trials;

the scope of its clinical trials and other development activities;

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the prioritization and number of clinical development programs it pursues;

the terms and timing of any collaborative, licensing and other arrangements that it may establish;

the costs of filing, prosecuting, defending and enforcing any patent claims and other intellectual property rights;

the costs and timing of regulatory approvals;

the costs of goods and manufacturing expenses; and

the costs of establishing or contracting for sales and marketing capabilities.

TorreyPines does not anticipate that it will generate significant continuing revenue for several years, if at all. Until TorreyPines can generate significant continuing revenue, if ever, it expect to satisfy its future cash needs through public or private equity offerings, debt financings or strategic partnerships and licensing arrangements, as well as through interest income earned on cash balances. TorreyPines cannot be certain that its immediate funding needs or future additional funding needs will be available on acceptable terms, or at all. If the near term funds that TorreyPines needs to continue operations do not become available, it may be required to cease operations, seek protection under the provisions of the U.S. Bankruptcy Code or liquidate and dissolve.

TorreyPines may have difficulty, or may be unable to, restart its clinical development programs

In the first quarter of 2009 TorreyPines suspended development of its clinical stage product candidates, NGX426 and tezampanel. In addition, on March 31, 2009 TorreyPines terminated all but three employees. In order to restart the clinical and preclinical work for NGX426 and tezampanel, TorreyPines will need to hire the appropriate employees or consultants. If TorreyPines is unable to identify and retain such individuals it will be difficult to restart the program. Additionally, TorreyPines has incurred delays created by suspension of work on the program and will need to re-engage third parties to prepare materials and conduct the necessary clinical and preclinical work. TorreyPines may not be successful in restarting its clinical programs. Furthermore, if the merger with Raptor is completed, Raptor's current board of directors and management will succeed TorreyPines current board of directors and management. In such case, TorreyPines will have no control over these development programs and its successor board of directors and management may choose to divest such programs or abandon them altogether.

TorreyPines product candidates are at an early stage of development. TorreyPines cannot be certain that any of its product candidates will be successfully developed, receive regulatory approval, or be commercialized.

TorreyPines has two product candidates, both at an early stage of development and TorreyPines does not have any products that are commercially available. TorreyPines two ionotropic glutamate receptor antagonists, NGX426 and tezampanel are clinical stage product candidates. TorreyPines will need to perform additional development work and conduct further preclinical testing and clinical trials for both product candidates before it can seek the regulatory approvals necessary to begin commercial sales.

Success in preclinical testing and early clinical trials does not mean that later clinical trials will be successful. Companies frequently suffer significant setbacks in later stage clinical trials, even after earlier clinical trials have shown promising results. In future clinical trials with larger or somewhat different populations, results from early clinical trials may not be reproduced and analysis of new or additional data may not demonstrate sufficient safety and efficacy to support regulatory approval of a product candidate.

Additionally, preclinical testing and clinical trials are expensive, can take many years, and have an uncertain outcome. Product candidates may not be successful in clinical trials for a number of reasons, including, but not limited to, the failure of a product candidate to be safe and efficacious, the results of later stage clinical trials not confirming earlier clinical results, or clinical trial results not being acceptable to the FDA or other regulatory agencies.

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There is no certainty that the safety and efficacy results of TorreyPines Phase I trial of NGX426 in a capsaicin induced pain model announced in December 2008 or of TorreyPines Phase IIb clinical trial for tezampanel in acute migraine announced in October 2007 are predictive of results in subsequent trials or are meaningful indicators of the safety and efficacy of the compounds. TorreyPines will be required to perform additional clinical testing in order to obtain regulatory approval of its product candidates and the results of such additional clinical testing may not replicate what has been demonstrated to date regarding the safety and efficacy. Additionally, further testing may not result in data that supports regulatory approval.

TorreyPines does not anticipate that any of its current product candidates will be eligible to receive regulatory approval and begin commercialization for a number of years, if at all. Even if TorreyPines were to ultimately receive regulatory approval for one or more of its product candidates, it may be unable to successfully commercialize them for a variety of reasons including:

the availability of alternative treatments;

the product not being cost effective to manufacture and sell;

limited acceptance in the marketplace; and

the effect of competition with other marketed products.

The success of TorreyPines product candidates may also be limited by the incidence and severity of any adverse events or undesirable side effects. Additionally, any regulatory approval to market a product may be subject to the imposition by such regulatory agency of limitations on the indicated uses. These limitations may reduce the size of the market for the product. If TorreyPines fails to commercialize one or more of its current product candidates, its business, results of operations, financial condition, and prospects for future growth may be materially and adversely affected.

Delays in the commencement or completion of clinical testing of TorreyPines product candidates could result in increased costs to it and delay TorreyPines ability to generate significant revenues.

TorreyPines cannot predict whether it will encounter problems with any of its future clinical trials that will cause it or regulatory authorities to delay or suspend TorreyPines clinical trials, or delay the analysis of data from such clinical trials. Any of the following factors could delay the clinical development of TorreyPines product candidates:

discussions with the FDA or comparable foreign authorities regarding the scope or design of one or more clinical trials;

delays in receiving, or the inability to obtain, required approvals from institutional review boards or other reviewing entities at clinical trial sites selected for participation in a clinical trial;

delays or slower than anticipated enrollment of participants into clinical trials;

lower than anticipated retention rate of participants in clinical trials;

need to repeat clinical trials as a result of inconclusive or negative results or unforeseen complications in testing;

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inadequate supply or deficient quality of product candidate materials or other materials necessary to conduct TorreyPines clinical trials;

unfavorable FDA inspection and review of a clinical trial site or records of any clinical or preclinical investigation;

serious, unexpected adverse events or undesirable side effects experienced by participants in the clinical trials that delay or preclude regulatory approval or limit the commercial use or market acceptance if approved;

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findings that the clinical trial participants are being exposed to unacceptable health risks;

placement by the FDA of a clinical hold on a clinical trial;

restrictions on or post-approval commitments with regard to any regulatory approval TorreyPines ultimately obtain that renders a product candidate not commercially viable; and

unanticipated cost overruns in preclinical studies and clinical trials.

In addition, once a clinical trial has started, it may be suspended or terminated by TorreyPines or the FDA or other regulatory authorities due to a number of factors, including:

failure to conduct the clinical trial in accordance with regulatory requirements;

inspection of the clinical trial operations or clinical trial site by the FDA or other regulatory authorities resulting in the imposition of a clinical hold;

negative clinical trial results;

adverse events or negative side-effects experienced by the clinical trial participants; or

lack of adequate funding to continue the clinical trial.

The FDA may not accept any or all of the efficacy endpoints and they may ultimately decide that the endpoints are inadequate to demonstrate the statistically significant efficacy levels required for regulatory approval. TorreyPines failure to adequately demonstrate the safety and efficacy of its product candidates would jeopardize its ability to achieve regulatory approval for, and ultimately to commercialize, the product candidates.

Clinical trials require sufficient participant enrollment, which is a function of many factors, including the size of the target population, the nature of the clinical trial protocol, the proximity of participants to clinical trial sites, the availability of effective treatments for the relevant disorder or disease, the eligibility criteria for TorreyPines clinical trials and the number of competing clinical trials. Delays in enrollment can result in increased costs and longer development times. Failure to enroll participants in TorreyPines clinical trials could delay the completion of the clinical trials beyond current expectations. In addition, the FDA could require TorreyPines to conduct clinical trials with a larger number of participants than it may project for any of its product candidates. As a result of these factors, TorreyPines may not be able to enroll a sufficient number of participants in a timely or cost-effective manner.

Additionally, enrolled participants may drop out of clinical trials, which could impair the validity or statistical significance of the clinical trials. A number of factors can lead participants in a clinical trial to discontinue participating in the clinical trial, including, but not limited to: the inclusion of a placebo arm in the clinical trial; possible lack of effect of the product candidate being tested at one or more of the dose levels being tested; adverse side effects experienced by the participant, whether or not related to the product candidate; and the availability of alternative treatment options.

TorreyPines, the FDA or other applicable regulatory authorities may suspend clinical trials of a product candidate at any time if TorreyPines or they believe the participants in such clinical trials, or in independent third-party clinical trials for product candidates based on similar technologies, are being exposed to unacceptable health risks or for other reasons. In addition, it is impossible to predict whether legislative changes will be enacted, or whether FDA regulations, guidance or interpretations will be changed, or what the impact of such changes, if any, may be.

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If TorreyPines experiences any such problems, it may not have the financial resources to continue development of the product candidate that is affected or the development of any of its other product candidates. If TorreyPines experiences significant delays in the commencement or completion of clinical testing, financial results and the commercial prospects for the product candidates will be harmed and costs will increase.

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Additionally, any significant delays in the commencement or completion of clinical testing will delay TorreyPines ability to generate significant revenue.

TorreyPines relies on third parties to assist it in conducting clinical trials. If these third parties do not successfully carry out their contractual duties or meet expected deadlines, TorreyPines may not be able to obtain regulatory approval for or commercialize its product candidates.

TorreyPines relies on, and intends to continue to rely on, third parties, such as contract research organizations, medical institutions, clinical investigators and contract laboratories, to conduct clinical trials of its product candidates. TorreyPines reliance on these third parties for development activities reduces its control over these activities. If these third parties do not successfully carry out their contractual duties or obligations or meet expected deadlines, or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to TorreyPines clinical protocols or for other reasons, its clinical trials may be extended, delayed or terminated. If these third parties do not successfully carry out their contractual duties or meet expected deadlines, TorreyPines may be required to replace them. Although TorreyPines believes there are a number of third party contractors it could engage to continue these activities, replacing a third party contractor may result in a delay of the affected trial. Accordingly, TorreyPines may not be able to obtain regulatory approval for or successfully commercialize its product candidates.

TorreyPines has licensed rights to product candidates NGX426 and tezampanel from Eli Lilly and Company, or Eli Lilly. Eli Lilly has rights of termination under the license agreement, which if exercised would adversely affect TorreyPines business.

In April 2003, TorreyPines entered into an agreement with Eli Lilly to obtain an exclusive license from Eli Lilly to their ionotropic glutamate receptor antagonist assets NGX426 and tezampanel. Pursuant to the license agreement TorreyPines has obligations to make payments to Eli Lilly under the agreement and to use commercially reasonable efforts to develop and commercialize the product candidates, including achievement of specified development events within specified timeframes. Eli Lilly may terminate the agreement for uncured material breach of the agreement by TorreyPines, including any breach of TorreyPines development and commercialization obligations. If Eli Lilly were to terminate the agreement, TorreyPines would lose rights to the ionotropic glutamate receptor antagonist product candidates, and its business would be adversely affected.

If TorreyPines fails to enter into and maintain collaborations for its product candidates, it may have to reduce or delay product development or increase expenditures.

TorreyPines strategy for developing, manufacturing, and commercializing potential products includes establishing and maintaining collaborations with pharmaceutical and biotechnology companies to advance some of TorreyPines programs and share expenditures with partners on those programs. TorreyPines may not be able to negotiate future collaborations on acceptable terms, if at all. If TorreyPines is not able to establish and maintain collaborative arrangements, TorreyPines may have to reduce or delay further development of some programs or undertake the development activities at TorreyPines own expense. If TorreyPines elects to increase capital expenditures to fund development programs on its own, it will need to obtain additional capital, which may not be available on acceptable terms or at all. Even if TorreyPines does succeed in securing such collaborations, it may not be able to maintain them if, for example, objectives under the agreement are not met, the agreement is terminated or not renewed, development or approval of a product candidate is delayed or sales of an approved drug are disappointing. Furthermore, any delay in entering into collaborations could delay the development and commercialization of TorreyPines product candidates and reduce their competitiveness, even if they reach the market. Any such delay related to TorreyPines collaborations could adversely affect TorreyPines business.

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If TorreyPines strategic partners do not devote adequate resources to the development and commercialization of TorreyPines product candidates, TorreyPines may not be able to commercialize its products and achieve revenues.

TorreyPines may enter into collaborations with other strategic partners with respect to its product candidates. If TorreyPines enters into any such collaborations, it may have limited or no control over the amount and timing of resources that its partners dedicate to the development of its product candidates. TorreyPines ability to commercialize products it develops with its partners and generate royalties from product sales will depend on the partner's ability to assist TorreyPines in establishing the safety and efficacy of TorreyPines product candidates, obtaining regulatory approvals and achieving market acceptance of products. TorreyPines partners may elect to delay or terminate development of a product candidate, independently develop products that could compete with TorreyPines products, or not commit sufficient resources to the marketing and distribution of products under the collaboration. If TorreyPines partners fail to perform as expected under the collaborative agreements, TorreyPines potential for revenue from the related product candidates will be dramatically reduced. In addition, revenue from TorreyPines future collaborations may consist of contingent payments, such as payments for achieving development and commercialization milestones and royalties payable on sales of any successfully developed drugs. The milestone, royalty or other revenue that TorreyPines may receive under these collaborations will depend upon both TorreyPines ability and its partner's ability to successfully develop, introduce, market and sell new products. In some cases, TorreyPines will not be involved in these processes and, accordingly, will depend entirely on its partners.

TorreyPines does not have internal manufacturing capabilities. If TorreyPines fails to develop and maintain supply relationships with collaborators or other third party manufacturers, TorreyPines may be unable to develop or commercialize its products.

TorreyPines ability to develop and commercialize its products depends in part on TorreyPines ability to manufacture, or arrange for future collaborators or other third parties to manufacture, its products at a competitive cost, in accordance with regulatory requirements and in sufficient quantities for clinical testing and eventual commercialization. None of TorreyPines product candidates have been manufactured on a commercial scale. TorreyPines and its third-party manufacturers may encounter difficulties with the small- and large-scale formulation and manufacturing processes required to manufacture its product candidates, resulting in delays in clinical trials and regulatory submissions, in the commercialization of product candidates or, if any product candidate is approved, in the recall or withdrawal of the product from the market. TorreyPines inability to enter into or maintain agreements with capable third-party manufacturers on acceptable terms could delay or prevent the commercialization of its products, which would adversely affect its ability to generate revenue and could prevent it from achieving profitability.

TorreyPines will need to identify and reach agreement with third parties for the supply of its product candidates for future clinical trials. TorreyPines does not have long-term supply agreements with third parties, and TorreyPines may not be able to enter into supply agreements with them in a timely manner or on acceptable terms, if at all. These third parties may also be subject to capacity constraints that would cause them to limit the amount of TorreyPines product candidates they can produce or the chemicals that TorreyPines can purchase. Any interruption or delay TorreyPines experiences in the supply of its product candidates may impede or delay such product candidates clinical development and cause TorreyPines to incur increased expenses associated with identifying and qualifying one or more alternate suppliers.

In addition, TorreyPines, its future collaborators or other third-party manufacturers of its products must comply with current good manufacturing practice, or cGMP, requirements enforced by the FDA through its facilities inspection program. These requirements include quality control, quality assurance and the maintenance of records and documentation. In addition, product manufacturing facilities in California are subject to licensing requirements of the California Department of Health Services and may be inspected by the California Department of Health Services at any time. TorreyPines, its collaborators or other third-party manufacturers of

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its products may be unable to comply with these cGMP requirements and with other FDA, state and foreign regulatory requirements. A failure to comply with these requirements may result in fines and civil penalties, suspension or delay in product approval, product seizure or recall, or withdrawal of product approval.

TorreyPines currently has no marketing or sales staff. If TorreyPines is unable to enter into or maintain collaborations with marketing partners or if it is unable to develop its own sales and marketing capabilities, TorreyPines may not be successful in commercializing its potential products and it may be unable to generate significant revenues.

TorreyPines may elect to commercialize some of the products it is developing on its own, with or without a partner, where those products can be effectively marketed and sold in concentrated markets that do not require a large sales force to be competitive. TorreyPines currently has no sales, marketing or distribution capabilities. To be able to commercialize TorreyPines own products, it will need to establish its own specialized sales force and marketing organization with technical expertise and with supporting distribution capabilities. Developing such an organization is expensive and time consuming and could delay or limit TorreyPines ability to commercialize products.

To commercialize any product candidate that TorreyPines decides not to market on its own, it will depend on collaborations with third parties that have established distribution systems and direct sales forces. If TorreyPines is unable to enter into such collaborations on acceptable terms, it may not be able to successfully commercialize those products.

To the extent that TorreyPines enters into arrangements with collaborators or other third parties to perform sales and marketing services, its product revenue is likely to be lower than if it directly marketed and sold its product candidates. If TorreyPines is unable to establish adequate sales and marketing capabilities, independently or with others, it may not be able to generate significant revenue and may not become profitable and the price of its common stock may be negatively affected.

NGX426 and tezampanel belong to a new class of compounds. There are no compounds in this class that have received regulatory approval for any indication. Therefore, TorreyPines does not know whether its product candidates will yield commercially viable products or receive regulatory approval.

NGX426 and tezampanel are ionotropic glutamate receptor antagonists of the AMPA and kainite subtype. They are part of a new class of compounds that block the binding of glutamate to AMPA and kainite receptors and, in turn, stop the transmission of pain signals. NGX426 and tezampanel may represent a novel approach to the treatment of numerous pain and non-pain diseases and disorders. There are currently no approved products that are ionotropic glutamate receptor antagonists of the AMPA and kainite subtype. As a result, TorreyPines cannot be certain that NGX426 and tezampanel will result in commercially viable drugs.

If TorreyPines product candidates do not achieve market acceptance among physicians, patients, health care payers and the medical community, they will not be commercially successful and TorreyPines business will be adversely affected.

The degree of market acceptance of any of TorreyPines approved product candidates among physicians, patients, health care payors and the medical community will depend on a number of factors, including:

acceptable evidence of safety and efficacy;

relative convenience and ease of administration;

the prevalence and severity of any adverse side effects;

availability of alternative treatments;

pricing and cost effectiveness;

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effectiveness of sales and marketing strategies; and

ability to obtain sufficient third-party coverage or reimbursement.

If TorreyPines is unable to achieve market acceptance for its product candidates, then such product candidates will not be commercially successful and TorreyPines business will be adversely affected.

If TorreyPines fails to attract and keep key management it may be unable to develop or commercialize its product candidates successfully.

TorreyPines success depends on its continued ability to attract, retain and motivate highly qualified management and scientific personnel. The loss of the services of any principal member of TorreyPines senior management team could delay or prevent the commercialization of its product candidates. TorreyPines employs these individuals on an at-will basis and their employment can be terminated by TorreyPines or such employees at any time, for any reason and with or without notice, subject to the terms contained in their respective employment agreements and offer letters.

Companies and universities that have licensed product candidates to TorreyPines for clinical development and marketing are sophisticated competitors that could develop similar products to compete with TorreyPines products.

Licensing TorreyPines product candidates from other companies, universities or individuals does not always prevent them from developing non-identical but competitive products for their own commercial purposes, nor from pursuing patent protection in areas that are competitive with TorreyPines. TorreyPines partners who created these product candidates are experienced scientists and business people who may continue to do research and development and seek patent protection in the same areas that led to the discovery of the product candidates that they licensed to TorreyPines. By virtue of the previous research that led to the discovery of the drugs or product candidates that they licensed to TorreyPines, these companies, universities, or individuals may be able to develop and market competitive products in less time than might be required to develop a product with which they have no prior experience.

Changes in, or interpretations of, accounting rules and regulations could result in unfavorable accounting charges or require TorreyPines to change its compensation policies.

Accounting methods and policies for biopharmaceutical companies, including policies governing revenue recognition, expenses, accounting for stock options and in-process research and development costs are subject to further review, interpretation and guidance from relevant accounting authorities, including the SEC. Changes to, or interpretations of, accounting methods or policies in the future may result in unfavorable accounting charges or may require TorreyPines to change its compensation policies to avoid such charges.

TorreyPines management will be required to devote substantial time to comply with public company regulations.

As a public company, TorreyPines will incur significant legal, accounting and other expenses. In addition, the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, as well as rules subsequently implemented by the SEC and the NASDAQ Global Market, impose various requirements on public companies, including corporate governance practices. TorreyPines management and other personnel will have to meet these requirements. Moreover, these rules and regulations will increase TorreyPines legal and financial compliance costs and will make some activities more time-consuming and costly.

In addition, the Sarbanes-Oxley Act requires, among other things, that TorreyPines maintain effective internal controls for financial reporting and disclosure controls and procedures. In particular, TorreyPines must perform system and process evaluation and testing of its internal controls over financial reporting to allow

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management to report on the effectiveness of its internal controls over financial reporting, as required by Section 404 of the Sarbanes-Oxley Act. TorreyPines compliance with Section 404 will require that it incur substantial accounting and related expense and expend significant management efforts. TorreyPines will need to hire additional accounting and financial staff to satisfy the on-going requirements of Section 404. Moreover, if TorreyPines is not able to comply with the requirements of Section 404, or if it or its independent registered public accounting firm identifies deficiencies in TorreyPines internal controls over financial reporting that are deemed to be material weaknesses, the market price of TorreyPines stock could decline and TorreyPines could be subject to sanctions or investigations by the NASDAQ Global Market, SEC or other regulatory authorities.

TorreyPines is a defendant in a class action lawsuit which, if determined adversely, could have a material adverse affect on it.

A class action securities lawsuit was filed against TorreyPines, as described in the section titled, "TorreyPines Business Legal Proceedings" in this joint proxy statement/prospectus. TorreyPines is defending against this action vigorously; however, TorreyPines does not know what the outcome of the proceedings will be and, if it does not prevail, it may be required to pay substantial damages or settlement amounts. Furthermore, regardless of the outcome, TorreyPines may incur significant defense costs, and the time and attention of its key management may be diverted from normal business operations. If TorreyPines is ultimately required to pay significant defense costs, damages or settlement amounts, such payments could materially and adversely affect its operations and results. TorreyPines has purchased liability insurance, however, if any costs or expenses associated with the litigation exceed the insurance coverage, TorreyPines may be forced to bear some or all of these costs and expenses directly, which could be substantial and may have an adverse effect on its business, financial condition, results of operations and cash flows. In any event, publicity surrounding the lawsuits and/or any outcome unfavorable to TorreyPines could adversely affect its reputation and stock price. The uncertainty associated with substantial unresolved lawsuits could harm TorreyPines business, financial condition and reputation.

TorreyPines has certain obligations to indemnify its officers and directors and to advance expenses to such officers and directors. Although TorreyPines has purchased liability insurance for its directors and officers, if its insurance carriers should deny coverage, or if the indemnification costs exceed the insurance coverage, TorreyPines may be forced to bear some or all of these indemnification costs directly, which could be substantial and may have an adverse effect on its business, financial condition, results of operations and cash flows. If the cost of TorreyPines liability insurance increases significantly, or if this insurance becomes unavailable, TorreyPines may not be able to maintain or increase its levels of insurance coverage for its directors and officers, which could make it difficult to attract or retain qualified directors and officers.

The use of any TorreyPines drug product candidates in clinical trials may expose TorreyPines to liability claims.

The nature of TorreyPines business exposes them to potential liability risks inherent in the testing, manufacturing and marketing of its drug product candidates. While TorreyPines products are clinically tested, TorreyPines products could potentially harm people or allegedly harm people, and TorreyPines may be subject to costly and damaging product liability claims. Some of the patients who participate in clinical trials are already critically ill when they enter a trial. The waivers TorreyPines obtain may not be enforceable and may not protect TorreyPines from liability or the costs of product liability litigation. Although TorreyPines carries clinical product liability insurance, it may not be sufficient to cover future claims. TorreyPines currently does not have any clinical or product liability claims or threats of claims filed against it.

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Risks Related to TorreyPines Intellectual Property

TorreyPines success depends upon its ability to protect its intellectual property and proprietary technologies.

TorreyPines commercial success depends on obtaining and maintaining patent protection and trade secret protection of its product candidates, proprietary technologies and their uses, as well as successfully defending its patents against third-party challenges. TorreyPines will only be able to protect its product candidates, proprietary technologies and their uses from unauthorized use by third parties to the extent that valid and enforceable patents or trade secrets cover them.

The patent positions of pharmaceutical and biotechnology companies can be highly uncertain and involve complex legal and factual questions for which important legal principles remain unresolved. No consistent policy regarding the breadth of claims allowed in biotechnology patents has emerged to date in the U.S. The biotechnology patent situation outside the U.S. is even more uncertain. Changes in either the patent laws or in interpretations of patent laws in the U.S. and other countries may diminish the value of TorreyPines intellectual property. Accordingly, TorreyPines cannot predict the breadth of claims that may be allowed or enforced in its patents or in third-party patents.

The degree of future protection for TorreyPines proprietary rights is uncertain because legal means afford only limited protection and may not adequately protect its rights or permit TorreyPines to gain or keep its competitive advantage. For example:

TorreyPines or its licensors might not have been the first to make the inventions covered by each of its pending patent applications and issued patents;

TorreyPines or its licensors might not have been the first to file patent applications for these inventions;

others may independently develop similar or alternative technologies or duplicate any of TorreyPines technologies;

TorreyPines issued patents may not provide a basis for commercially viable products, may not provide it with any competitive advantages, or may be challenged by third parties;

TorreyPines issued patents may not be valid or enforceable;

TorreyPines may not develop additional proprietary technologies that are patentable; and

the patents of others may have an adverse effect on TorreyPines business.

Proprietary trade secrets and unpatented know-how are also very important to TorreyPines business. Although TorreyPines has taken steps to protect its trade secrets and unpatented know-how, including entering into confidentiality agreements with third parties and proprietary information and inventions agreements with employees, consultants and advisors, third parties may still obtain this information. Enforcing a claim that a third party illegally obtained and is using TorreyPines trade secrets or unpatented know-how is expensive and time consuming, and the outcome is unpredictable. In addition, courts outside the U.S. may be less willing to protect this information. Moreover, TorreyPines competitors may independently develop equivalent knowledge, methods and know-how.

If TorreyPines is sued for infringing intellectual property rights of third parties, it will be costly and time consuming, and an unfavorable outcome in that litigation would have a material adverse effect on its business.

TorreyPines commercial success depends upon its ability and the ability of any of its collaborators to develop, manufacture, market, and sell its product candidates and use its proprietary technologies without infringing the proprietary rights of third parties. Numerous U.S. and foreign issued patents and pending patent applications, which are owned by third parties, exist in the fields in which TorreyPines is developing products.

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Because patent applications can take many years to issue, there may be currently pending applications, unknown

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to TorreyPines, which may later result in issued patents that its product candidates or proprietary technologies may infringe. TorreyPines has not conducted a complete search of existing patents to identify existing patents that its product candidates or proprietary technologies may inadvertently infringe.

TorreyPines may be exposed to future litigation by the companies holding these patents or other third parties based on claims that its product candidates and/or proprietary technologies infringe their intellectual property rights. If one of these patents was found to cover TorreyPines product candidates, proprietary technologies or their uses, TorreyPines or its collaborators could be required to pay damages and could be unable to commercialize its product candidates or use its proprietary technologies unless TorreyPines obtained a license to the patent. A license to these patents may not be available to TorreyPines or its collaborators on acceptable terms, if at all.

There is a substantial amount of litigation involving patent and other intellectual property rights in the biotechnology and biopharmaceutical industries generally. If a third party claims that TorreyPines or its collaborators infringe on its technology, it may face a number of issues, including:

infringement and other intellectual property claims which, with or without merit, may be expensive and time-consuming to litigate and may divert management's attention from its core business;

substantial damages for infringement, including treble damages and attorneys' fees, as well as damages for products development using allegedly infringing drug discovery tools or methods which TorreyPines may have to pay if a court decides that the product or proprietary technology at issue infringes on or violates the third party's rights;

a court prohibiting TorreyPines from selling or licensing the product or using the proprietary technology unless the third party licenses its technology to TorreyPines, which it is not required to do;

if a license is available from the third party, TorreyPines may have to pay substantial royalties, fees and/or grant cross licenses to its technology; and

redesigning TorreyPines products or processes so they do not infringe, which may not be possible or may require substantial funds and time.

TorreyPines may also be subject to claims that it or its employees, who were previously employed at universities or other biotechnology or pharmaceutical companies, have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers. Litigation may be necessary to defend against these claims. If TorreyPines fails in defending such claims, in addition to paying monetary damages, it may lose valuable intellectual property rights or personnel. A loss of key personnel or their work product could hamper or prevent TorreyPines ability to commercialize certain potential drugs, which could severely harm its business. Even if TorreyPines is successful in defending against these claims, litigation could result in substantial costs and be a distraction to management.

Risks Related to TorreyPines Industry

TorreyPines' product candidates are subject to extensive regulation, which can be costly and time consuming, cause unanticipated delays or prevent the receipt of the required approvals to commercialize TorreyPines' product candidates.

The clinical development, manufacturing, labeling, storage, record-keeping, future advertising, promotion, export, marketing and distribution of TorreyPines' product candidates are subject to extensive regulation by the FDA and other regulatory agencies in the U.S. and by comparable foreign governmental authorities. The process of obtaining these approvals is expensive, often takes many years, and can vary substantially based upon the type, complexity and novelty of the products involved. Approval policies or regulations may change. In addition, although members of TorreyPines management have drug development and regulatory experience, as a company TorreyPines has not previously filed the marketing applications necessary to gain regulatory approvals for any

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product. This lack of experience may impede TorreyPines ability to obtain FDA marketing approval in a timely manner, if at all, for the product candidates it is developing and commercializing. TorreyPines will not be able to commercialize its product candidates in the U.S. until it obtains FDA approval and in other countries until it obtains approval by comparable governmental authorities. Any delay in obtaining, or inability to obtain, these approvals would prevent TorreyPines from commercializing its product candidates.

Even if any of TorreyPines product candidates receive regulatory approval, they may still face future development and regulatory difficulties.

If any of TorreyPines product candidates receive regulatory approval, the FDA and foreign regulatory authorities may still impose significant restrictions on the uses or marketing of the product candidates or impose on-going requirements for post-approval studies. In addition, regulatory agencies subject a product, its manufacturer and the manufacturer's facilities to continuing review and periodic inspections. If previously unknown problems with a product or its manufacturing facility are discovered, a regulatory agency may impose restrictions on that product, TorreyPines, or its partners, including requiring withdrawal of the product from the market. TorreyPines product candidates will also be subject to on-going FDA requirements for submission of safety and other post-market information. If TorreyPines product candidates fail to comply with applicable regulatory requirements, a regulatory agency may:

issue warning letters;

impose civil or criminal penalties;

suspend regulatory approval;

suspend any on-going clinical trials;

refuse to approve pending applications or supplements to approved applications filed by TorreyPines or its collaborators;

impose restrictions on operations, including costly new manufacturing requirements; or

seize or detain products or require a product recall.

In order to market any products outside of the U.S., TorreyPines and its partners must establish and comply with numerous and varying regulatory requirements of other countries regarding safety and efficacy. Approval procedures vary among countries and can involve additional product testing and additional administrative review periods. The time required to obtain approval in other countries might differ from that required to obtain FDA approval. The regulatory approval process in other countries may include all of the risks detailed above regarding FDA approval in the U.S. Regulatory approval in one country does not ensure regulatory approval in another, but a failure or delay in obtaining regulatory approval in one country may negatively impact the regulatory process in others. Failure to obtain regulatory approval in other countries or any delay or setback in obtaining such approval could have the same adverse effects described above regarding FDA approval in the U.S., including the risk that TorreyPines product candidates may not be approved for all indications requested, which could limit the uses of its product candidates and adversely impact potential royalties and product sales, and that such approval may be subject to limitations on the indicated uses for which the product may be marketed or require costly, post-marketing follow-up studies.

If TorreyPines and its partners fail to comply with applicable foreign regulatory requirements, TorreyPines and its partners may be subject to fines, suspension or withdrawal of regulatory approvals, product recalls, seizure of products, operating restrictions and criminal prosecution.

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If TorreyPines competitors have products that are approved faster, marketed more effectively or demonstrated to be more effective than TorreyPines products, then TorreyPines commercial opportunity will be reduced or eliminated.

The biotechnology and biopharmaceutical industries are characterized by rapidly advancing technologies, intense competition and a strong emphasis on proprietary products. TorreyPines face competition from many different sources, including commercial pharmaceutical and biotechnology enterprises, academic institutions, government agencies and private and public research institutions. Due to the high demand for treatments in the areas in which TorreyPines is competing, research is intense and new treatments are being sought out and developed by TorreyPines competitors.

In addition, many other competitors are developing products for the treatment of the diseases TorreyPines is targeting and if successful, these products could compete with TorreyPines products. If TorreyPines receives approval to market and sell any of its product candidates, it may compete with these companies and their products as well as others in varying stages of development.

Many of TorreyPines competitors have significantly greater financial resources and expertise in research and development, manufacturing, preclinical testing, clinical trials, regulatory approvals and marketing approved products than TorreyPines does. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. TorreyPines competitors may succeed in developing technologies and therapies that are more effective, better tolerated or less costly than theirs, or that would render its product candidates obsolete and noncompetitive. TorreyPines competitors may succeed in obtaining approvals from the FDA and foreign regulatory authorities for their products sooner than TorreyPines does. TorreyPines will also face competition from these third parties in recruiting and retaining qualified scientific and management personnel, establishing clinical trial sites and patient registration for clinical trials, and in acquiring and in-licensing technologies and products complementary to TorreyPines programs or advantageous to its business.

TorreyPines is subject to uncertainty relating to health care reform measures and reimbursement policies which, if not favorable to its product candidates, could hinder or prevent the commercial success of its product candidates.

The continuing efforts of the government, insurance companies, managed care organizations and other payors of health care costs to contain or reduce costs of health care may adversely affect TorreyPines:

ability to set a price TorreyPines believe is fair for its products;

ability to generate revenues and achieve profitability;

future revenues and profitability of potential customers, suppliers and collaborators; and

the availability of capital.

In certain foreign markets, the pricing of prescription drugs is subject to government control. In the U.S., given recent federal and state government initiatives directed at lowering the total cost of health care, Congress and state legislatures will likely continue to focus on health care reform, the cost of prescription drugs and the reform of the Medicare and Medicaid systems. For example, a new Medicare prescription drug benefit program began in 2006. While TorreyPines cannot predict the full outcome of the implementation of this legislation or whether any future legislative or regulatory proposals affecting its business will be adopted, the announcement or adoption of these proposals could materially and adversely affect TorreyPines business, financial condition, and results of operations.

TorreyPines ability to commercialize its product candidates successfully will depend in part on the extent to which governmental authorities, private health insurers and other organizations establish appropriate reimbursement levels for the cost of its products and related treatments. Third-party payors are increasingly

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challenging the prices charged for medical products and services. Also, the trend toward managed health care in the U.S., which could significantly influence the purchase of health care services and products, as well as legislative proposals to reform health care or reduce government insurance programs, may result in lower prices for TorreyPines product candidates or exclusion of its product candidates from reimbursement programs. The cost containment measures that health care payors and providers are instituting and the effect of any health care reform could materially and adversely affect TorreyPines results of operations.

Product liability claims may harm TorreyPines business if its insurance coverage for those claims is inadequate.

TorreyPines faces an inherent risk of product liability exposure related to the testing of its product candidates in human clinical trials, and will face an even greater risk if it sells its product candidates commercially. An individual may bring a liability claim against TorreyPines if one of its product candidates causes, or merely appears to have caused, an injury. If TorreyPines is unable to successfully defend itself against any such product liability claim, it will incur substantial liabilities. Regardless of merit or eventual outcome, liability claims may result in:

decreased demand for TorreyPines product candidates;

injury to TorreyPines reputation;

withdrawal of clinical trial participants;

costs of related litigation;

substantial monetary awards to patients or other claimants;

loss of revenues; and

the inability to commercialize TorreyPines product candidates.

TorreyPines has product liability insurance that covers its clinical trials, up to an annual aggregate limit of \$5.0 million. TorreyPines intends to expand its insurance coverage to include the sale of commercial products if marketing approval is obtained for any of its product candidates. However, insurance coverage is increasingly expensive. TorreyPines may not be able to maintain insurance coverage at a reasonable cost and it may not be able to obtain insurance coverage that will be adequate to satisfy any liability that may arise.

TorreyPines uses hazardous chemicals and biological materials in its business. Any claims relating to improper handling, storage or disposal of these materials could be time-consuming and costly.

TorreyPines development processes involve the controlled use of hazardous materials, including chemicals and biological materials. TorreyPines operations produce hazardous waste products. TorreyPines cannot eliminate the risk of accidental contamination or discharge and any resultant injury from those materials. Federal, state and local laws and regulations govern the use, manufacture, storage, handling and disposal of hazardous materials. TorreyPines may be sued for any injury or contamination that results from its use or the use by third parties of these materials. Compliance with environmental laws and regulations may be expensive, and current or future environmental regulations may impair TorreyPines development and production efforts.

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Risks Related to TorreyPines Common Stock

TorreyPines stock price has been, and is expected to continue to be, volatile.

The market price of TorreyPines common stock could be subject to significant fluctuations. Market prices for securities of early-stage pharmaceutical, biotechnology and other life sciences companies have historically been particularly volatile. Some of the factors that may cause the market price of TorreyPines common stock to fluctuate include:

announcements related to developments involving the merger with Raptor and Raptor's business, including developments relating to Raptor's product candidates and its clinical trial or preclinical study results;

the results of any future clinical trials of TorreyPines or Raptor's product candidates;

the results of any future preclinical studies of TorreyPines or Raptor's product candidates;

the entry into, or termination of, key agreements, including key strategic alliance agreements;

the results and timing of regulatory reviews relating to the approval of TorreyPines or Raptor's product candidates;

the initiation of, material developments in, or conclusion of litigation to enforce or defend any of TorreyPines or Raptor's intellectual property rights;

general and industry-specific economic conditions that may affect TorreyPines' development expenditures;

the results of clinical trials conducted by others on drugs that would compete with TorreyPines or Raptor's product candidates;

issues in manufacturing TorreyPines or Raptor's product candidates or any approved products;

the loss of key employees by TorreyPines or Raptor;

the introduction of technological innovations or new commercial products by TorreyPines competitors;

failure of any of TorreyPines or Raptor's product candidates, if approved, to achieve commercial success;

changes in estimates or recommendations by securities analysts, if any, who cover TorreyPines common stock;

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future sales of TorreyPines common stock;

changes in the structure of health care payment systems; and

period-to-period fluctuations in TorreyPines financial results.

Moreover, the stock markets in general have experienced substantial volatility that has often been unrelated to the operating performance of individual companies. These broad market fluctuations may also adversely affect the trading price of TorreyPines common stock.

In the past, following periods of volatility in the market price of a company's securities, stockholders have often instituted class action securities litigation against those companies. Such litigation, if instituted, could result in substantial costs and diversion of management attention and resources, which could significantly harm TorreyPines profitability and reputation.

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Anti-takeover provisions in TorreyPines stockholder rights plan and in TorreyPines certificate of incorporation and bylaws may prevent or frustrate attempts by stockholders to change the board of directors or current management and could make a third-party acquisition difficult.

TorreyPines is a party to a stockholder rights plan, also referred to as a poison pill, which is intended to deter a hostile takeover of TorreyPines by making such proposed acquisition more expensive and less desirable to the potential acquirer. The stockholder rights plan and TorreyPines certificate of incorporation and bylaws, as amended, contain provisions that may discourage, delay or prevent a merger, acquisition or other change in control that stockholders may consider favorable, including transactions in which stockholders might otherwise receive a premium for their shares. These provisions could limit the price that investors might be willing to pay in the future for shares of TorreyPines common stock.

TorreyPines largest stockholders may take actions that are contrary to your interests, including selling their stock.

A small number of TorreyPines stockholders hold a significant amount of TorreyPines outstanding stock. These stockholders may support competing transactions and have interests that are different from yours. In addition, the average number of shares of TorreyPines stock that trade each day is generally low. As a result, sales of a large number of shares of TorreyPines stock by these large stockholders or other stockholders within a short period of time could adversely affect TorreyPines stock price.

TorreyPines management has broad discretion over the use of its cash and, while management has expended significant effort to preserve cash, TorreyPines may not use its remaining cash effectively, which could adversely affect its results of operations.

TorreyPines management has significant flexibility in applying its cash resources and could use these resources for corporate purposes that do not increase TorreyPines market value, or in ways with which TorreyPines stockholders may not agree. TorreyPines may use its cash resources for corporate purposes that do not yield a significant return or any return at all for its stockholders, which may cause TorreyPines stock price to decline.

Raising additional funds by issuing securities or through collaboration and licensing arrangements may cause dilution to existing stockholders, restrict operations or require TorreyPines to relinquish proprietary rights.

TorreyPines may raise additional funds through public or private equity offerings, debt financings or corporate collaboration and licensing arrangements. To the extent that TorreyPines raises additional capital by issuing equity securities, its existing stockholders' ownership will be diluted. Any debt financing TorreyPines enters into may involve covenants that restrict its operations. These restrictive covenants may include limitations on additional borrowing, specific restrictions on the use of TorreyPines assets as well as prohibitions on its ability to create liens, pay dividends, redeem stock or make investments. In addition, if TorreyPines raise additional funds through collaboration and licensing arrangements, it may be necessary to relinquish potentially valuable rights to its potential products or proprietary technologies, or grant licenses on terms that are not favorable to TorreyPines.

There is only a limited trading market for TorreyPines common stock and it is possible that investors may not be able to sell their shares easily.

There is currently only a limited trading market for TorreyPines common stock. TorreyPines common stock trades on the NASDAQ Global Market under the symbol TPTX with very limited trading volume. TorreyPines cannot assure investors that a substantial trading market will be sustained for its common stock.

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Risks Related to Raptor

In addition to the other information contained in this joint proxy statement/prospectus, you should carefully consider the material risks described below. As discussed above, TorreyPines has entered into the merger agreement with merger sub and Raptor pursuant to which merger sub will merge with and into Raptor, with Raptor as the surviving corporation becoming a wholly-owned subsidiary of TorreyPines.

Risks Related to Raptor's Business

If Raptor fails to obtain the capital necessary to fund its operations, its financial results, financial condition and its ability to continue as a going concern will be adversely affected and Raptor will have to delay or terminate some or all of its product development programs.

Raptor's condensed consolidated financial statements as of May 31, 2009 have been prepared assuming that it will continue as a going concern. As of May 31, 2009, Raptor had an accumulated deficit of approximately \$19.9 million. Raptor expects to continue to incur losses for the foreseeable future and will have to raise substantial cash to fund its planned operations.

Raptor believes that its cash and cash equivalents balances as of August 27, 2009, will be sufficient to meet its obligations into the first calendar quarter of 2010. Raptor is currently in the process of reviewing strategic partnerships and collaborations in order to fully fund its preclinical and clinical programs through the end of 2010. If Raptor is not able to close a strategic transaction, it anticipates raising additional capital in the fourth calendar quarter of 2009. These estimates are based on assumptions that may prove to be wrong. In addition to the activities described herein above, Raptor anticipates that it will need to raise funds in the future for the continued development of its drug development programs. Raptor will need to sell equity or debt securities to raise significant additional funds. The sale of additional securities is likely to result in additional dilution to Raptor's stockholders. Additional financing, may not be available in amounts or on terms satisfactory to Raptor or at all. Raptor may be unable to raise additional financing due to a variety of factors, including its financial condition, the status of its research and development programs, and the general condition of the financial markets. If Raptor fails to raise significant additional financing, it will have to delay or terminate some or all of its research and development programs, its financial condition and operating results will be adversely affected and it may have to cease its operations.

If Raptor obtains significant additional financing, it expects to continue to spend substantial amounts of capital on its operations for the foreseeable future. The amount of additional capital it will need depends on many factors, including:

the progress, timing and scope of its preclinical studies and clinical trials;

the time and cost necessary to obtain regulatory approvals;

the time and cost necessary to develop commercial manufacturing processes, including quality systems, and to build or acquire manufacturing capabilities;

the time and cost necessary to respond to technological and market developments; and

any changes made or new developments in its existing collaborative, licensing and other corporate relationships or any new collaborative, licensing and other commercial relationships that it may establish.

Moreover, Raptor's fixed expenses such as rent, collaboration and license payments and other contractual commitments are substantial and will likely increase in the future. These fixed expenses are likely to increase because Raptor expects to enter into:

additional licenses and collaborative agreements;

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contracts for manufacturing, clinical and preclinical research, consulting, maintenance and administrative services; and

financing facilities.

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Raptor is an early development stage company and has not generated any revenues to date and has a limited operating history. Many of Raptor's drug product candidates are in the concept stage and have not undergone significant testing in preclinical studies or any testing in clinical trials. Moreover, Raptor cannot be certain that its research and development efforts will be successful or, if successful, that its drug product candidates will ever be approved for sale or generate commercial revenues. Raptor has a limited relevant operating history upon which an evaluation of its performance and prospects can be made. Raptor is subject to all of the business risks associated with a new enterprise, including, but not limited to, risks of unforeseen capital requirements, failure of drug product candidates either in preclinical testing or in clinical trials, failure to establish business relationships, and competitive disadvantages against larger and more established companies.

Raptor will need to make important progress towards achieving at least one of its major clinical objectives, as outlined in the section titled, "Raptor's Management's Discussion and Analysis of Financial Conditions and Results of Operations" in this joint proxy statement/prospectus or Raptor's ability to continue as a going concern will be adversely impacted by limiting its ability to raise additional capital.

The current disruptions in the financial markets could affect Raptor's ability to obtain financing on favorable terms (or at all).

The U.S. credit markets have recently experienced historic dislocations and liquidity disruptions which have caused financing to be unavailable in many cases and, even if available, have caused the cost of prospective financings to increase. These circumstances have materially impacted liquidity in the debt markets, making financing terms for borrowers able to find financing less attractive, and in many cases have resulted in the unavailability of certain types of debt financing. Continued uncertainty in the debt and equity markets may negatively impact Raptor's ability to access financing on favorable terms or at all. In addition, Federal legislation to deal with the current disruptions in the financial markets could have an adverse affect on Raptor's ability to raise other types of financing.

Even if Raptor is able to develop its drug product candidates, it may not be able to receive regulatory approval, or if approved, it may not be able to generate significant revenues or successfully commercialize its products, which would adversely affect its financial results and financial condition and it would have to delay or terminate some or all of its research product development programs.

All of Raptor's drug product candidates are at an early stage of development and will require extensive additional research and development, including preclinical testing and clinical trials, as well as regulatory approvals, before it can market them.

Raptor cannot predict if or when any of the drug product candidates it intends to develop will be approved for marketing. There are many reasons that Raptor may fail in its efforts to develop its drug product candidates. These include:

the possibility that preclinical testing or clinical trials may show that Raptor's drug product candidates are ineffective and/or cause harmful side effects;

Raptor's drug product candidates may prove to be too expensive to manufacture or administer to patients;

Raptor's drug product candidates may fail to receive necessary regulatory approvals from the FDA or foreign regulatory authorities in a timely manner, or at all;

Raptor's drug product candidates, if approved, may not be produced in commercial quantities or at reasonable costs;

Raptor's drug product candidates, if approved, may not achieve commercial acceptance;

regulatory or governmental authorities may apply restrictions to Raptor's drug product candidates, which could adversely affect their commercial success; and

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the proprietary rights of other parties may prevent Raptor or its potential collaborative partners from marketing its drug product candidates.

If Raptor fails to develop its drug product candidates, its financial results and financial condition will be adversely affected, it will have to delay or terminate some or all of its research product development programs and may be forced to cease operations.

If Raptor is limited in its ability to utilize acquired or licensed technologies, it may be unable to develop, out-license, market and sell its product candidates, which could cause delayed new product introductions, and/or adversely affect its reputation, any of which could have a material adverse effect on its business, prospects, financial condition, and operating results.

Raptor has acquired and licensed certain proprietary technologies, discussed in the following risk factors, and plan to further license and acquire various patents and proprietary technologies owned by third parties. These agreements are critical to Raptor's product development programs. These agreements may be terminated, and all rights to the technologies and product candidates will be lost, if Raptor fails to perform its obligations under these agreements and licenses in accordance with their terms including, but not limited to, Raptor's ability to make all payments due under such agreements. Raptor's inability to continue to maintain these technologies could materially adversely affect Raptor's business, prospects, financial condition, and operating results. In addition, Raptor's business strategy depends on the successful development of these licensed and acquired technologies into commercial products, and, therefore, any limitations on Raptor's ability to utilize these technologies may impair its ability to develop, out-license, market and sell its product candidates, delay new product introductions, and/or adversely affect its reputation, any of which could have a material adverse effect on Raptor's business, prospects, financial condition, and operating results.

If the purchase or licensing agreements Raptor entered into are terminated, Raptor will lose the right to use or exploit its owned and licensed technologies, in which case Raptor will have to delay or terminate some or all of its research and development programs, Raptor's financial condition and operating results will be adversely affected and it may have to cease its operations.

Raptor entered into an asset purchase agreement with BioMarin Pharmaceutical Inc., or BioMarin, for the purchase of intellectual property related to the receptor-associated protein, or RAP, technology, a licensing agreement with Washington University for mesoderm development protein, or Mesd, and a licensing agreement with UCSD for DR Cysteamine. BioMarin, Washington University and UCSD may terminate their respective agreements with Raptor upon the occurrence of certain events, including if Raptor enters into certain bankruptcy proceedings or if Raptor materially breaches its payment obligations and fail to remedy the breach within the permitted cure periods. Although Raptor is not currently involved in any bankruptcy proceedings or in breach of these agreements, there is a risk that it may be in the future, giving BioMarin, Washington University and UCSD the right to terminate their respective agreements with Raptor. Raptor has the right to terminate these agreements at any time by giving prior written notice. If the BioMarin, Washington University or UCSD agreements are terminated by either party, Raptor would be forced to assign back to BioMarin, in the case of the BioMarin agreement, all of Raptor's rights, title and interest in and to the intellectual property related to the RAP technology, would lose Raptor's rights to the Mesd technology, in the case of the Washington University agreement and would lose Raptor's rights to DR Cysteamine, in the case of UCSD. Under such circumstances, Raptor would have no further right to use or exploit the patents, copyrights or trademarks in those respective technologies. If this happens, Raptor will have to delay or terminate some or all of its research and development programs, Raptor's financial condition and operating results will be adversely affected, and it may have to cease its operations. If Raptor loses its rights to the intellectual property related to the RAP technology purchased by Raptor from BioMarin, Raptor's agreement with Roche would likely be terminated and any milestone or royalty payments from Roche to Raptor would thereafter cease to accrue.

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If Raptor fails to compete successfully with respect to acquisitions, joint venture and other collaboration opportunities, it may be limited in its ability to develop its drug product candidates.

Raptor's competitors compete with Raptor to attract established biotechnology and pharmaceutical companies or organizations for acquisitions, joint ventures, licensing arrangements or other collaborations. Collaborations include licensing proprietary technology from, and other relationships with, academic research institutions. If Raptor's competitors successfully enter into partnering arrangements or license agreements with academic research institutions, Raptor will then be precluded from pursuing those specific opportunities. Since each of these opportunities is unique, Raptor may not be able to find a substitute. Other companies have already begun many drug development programs, which may target diseases that Raptor is also targeting, and have already entered into partnering and licensing arrangements with academic research institutions, reducing the pool of available opportunities.

Universities and public and private research institutions also compete with Raptor. While these organizations primarily have educational or basic research objectives, they may develop proprietary technology and acquire patents that Raptor may need for the development of its drug product candidates. Raptor will attempt to license this proprietary technology, if available. These licenses may not be available to Raptor on acceptable terms, if at all. If Raptor is unable to compete successfully with respect to acquisitions, joint venture and other collaboration opportunities, Raptor may be limited in its ability to develop new products.

If Raptor does not achieve its projected development goals in the time frames it announces and expects, the credibility of its management and its technology may be adversely affected and, as a result, Raptor's financial condition may suffer.

For planning purposes, Raptor estimates the timing of the accomplishment of various scientific, clinical, regulatory and other product development goals, which Raptor sometimes refers to as milestones. These milestones may include the commencement or completion of scientific studies and clinical trials and the submission of regulatory filings. From time to time, Raptor may publicly announce the expected timing of some of these milestones. All of these milestones will be based on a variety of assumptions. The actual timing of these milestones can vary dramatically compared to its estimates, in many cases for reasons beyond Raptor's control. If Raptor does not meet these milestones as publicly announced, its stockholders may lose confidence in Raptor's ability to meet these milestones and, as a result, the price of its common stock may decline.

Raptor's product development programs will require substantial additional future funding which could impact its operational and financial condition.

It will take several years before Raptor is able to develop marketable drug product candidates, if at all. Raptor's product development programs will require substantial additional capital to successfully complete them, arising from costs to:

conduct research, preclinical testing and human studies;

establish pilot scale and commercial scale manufacturing processes and facilities; and

establish and develop quality control, regulatory, marketing, sales, finance and administrative capabilities to support these programs. Raptor's future operating and capital needs will depend on many factors, including:

the pace of scientific progress in its research and development programs and the magnitude of these programs;

the scope and results of preclinical testing and human clinical trials;

Raptor's ability to obtain, and the time and costs involved in obtaining regulatory approvals;

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Raptor's ability to prosecute, maintain, and enforce, and the time and costs involved in preparing, filing, prosecuting, maintaining and enforcing patent claims;

competing technological and market developments;

Raptor's ability to establish additional collaborations;

changes in Raptor's existing collaborations;

the cost of manufacturing scale-up; and

the effectiveness of Raptor's commercialization activities.

Raptor bases its outlook regarding the need for funds on many uncertain variables. Such uncertainties include the success of Raptor's research initiatives, regulatory approvals, the timing of events outside its direct control such as negotiations with potential strategic partners and other factors. Any of these uncertain events can significantly change Raptor's cash requirements as they determine such one-time events as the receipt or payment of major milestones and other payments.

Significant additional funds will be required to support Raptor's operations and if Raptor is unable to obtain them on favorable terms, it may be required to cease or reduce further development or commercialization of its drug product programs, to sell some or all of its technology or assets, to merge with another entity or cease operations.

If Raptor fails to demonstrate efficacy in its preclinical studies and clinical trials Raptor's future business prospects, financial condition and operating results will be materially adversely affected.

The success of Raptor's development and commercialization efforts will be greatly dependent upon its ability to demonstrate drug product candidate efficacy in preclinical studies, as well as in clinical trials. Preclinical studies involve testing drug product candidates in appropriate non-human disease models to demonstrate efficacy and safety. Regulatory agencies evaluate these data carefully before they will approve clinical testing in humans. If certain preclinical data reveals potential safety issues or the results are inconsistent with an expectation of the drug product candidate's efficacy in humans, the regulatory agencies may require additional more rigorous testing, before allowing human clinical trials. This additional testing will increase program expenses and extend timelines. Raptor may decide to suspend further testing on its drug product candidates or technologies if, in the judgment of Raptor's management and advisors, the preclinical test results do not support further development.

Moreover, success in preclinical testing and early clinical trials does not ensure that later clinical trials will be successful, and Raptor cannot be sure that the results of later clinical trials will replicate the results of prior clinical trials and preclinical testing. The clinical trial process may fail to demonstrate that Raptor's drug product candidates are safe for humans and effective for indicated uses. This failure would cause Raptor to abandon a drug product candidate and may delay development of other drug product candidates. Any delay in, or termination of, Raptor's preclinical testing or clinical trials will delay the filing of its investigational new drug application, or IND, and new drug application, or NDA, as applicable, with the FDA and, ultimately, Raptor's ability to commercialize its drug product candidates and generate product revenues. In addition, some of Raptor's clinical trials will involve small patient populations. Because of the small sample size, the results of these early clinical trials may not be indicative of future results. Following successful preclinical testing, drug product candidates will need to be tested in a clinical development program to provide data on safety and efficacy prior to becoming eligible for product approval and licensure by regulatory agencies. From first clinical trial through product approval can take at least eight years, on average in the U.S.

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If any of Raptor's future clinical development drug product candidates become the subject of problems, including those related to, among others:

efficacy or safety concerns with the drug product candidates, even if not justified;

unexpected side-effects;

regulatory proceedings subjecting the drug product candidates to potential recall;

publicity affecting doctor prescription or patient use of the drug product candidates;

pressure from competitive products; or

introduction of more effective treatments.

Raptor's ability to sustain its development programs will become critically compromised. For example, efficacy or safety concerns may arise, whether or not justified, that could lead to the suspension or termination of Raptor's clinical programs.

Each clinical phase is designed to test attributes of drug product candidates and problems that might result in the termination of the entire clinical plan can be revealed at any time throughout the overall clinical program. The failure to demonstrate efficacy in Raptor's clinical trials would have a material adverse effect on its future business prospects, financial condition and operating results.

If Raptor does not obtain the support of new, and maintain the support of existing, key scientific collaborators, it may be difficult to establish products using Raptor's technologies as a standard of care for various indications, which may limit its revenue growth and profitability and could have a material adverse effect on Raptor's business, prospects, financial condition and operating results.

Raptor will need to establish relationships with additional leading scientists and research institutions. Raptor believes that such relationships are pivotal to establishing products using its technologies as a standard of care for various indications. Although Raptor has established a Medical and Scientific Advisory Board and research collaborations, there is no assurance that its Advisory Board members and its research collaborators will continue to work with Raptor or that Raptor will be able to attract additional research partners. If Raptor is not able to maintain existing or establish new scientific relationships to assist in its research and development, Raptor may not be able to successfully develop its drug product candidates.

If the manufacturers upon whom Raptor relies fail to produce in the volumes and quality that Raptor requires on a timely basis, or to comply with stringent regulations applicable to pharmaceutical manufacturers, Raptor may face delays in the development and commercialization of, or be unable to meet demand for, its products, if any, and may lose potential revenues.

Raptor does not currently manufacture its drug product candidates, and does not currently plan to develop the capacity to do so. The manufacture of pharmaceutical products requires significant expertise and capital investment, including the development of advanced manufacturing techniques and process controls. Manufacturers of pharmaceutical products often encounter difficulties in production, particularly in scaling up initial production. These problems include difficulties with production costs and yields, quality control, including stability of the product candidate and quality assurance testing, shortages of qualified personnel, as well as compliance with strictly enforced federal, state and foreign regulations. Raptor's third-party manufacturers and key suppliers may experience manufacturing difficulties due to resource constraints or as a result of labor disputes, unstable political environments at foreign facilities or financial difficulties. If these manufacturers or key suppliers were to encounter any of these difficulties, or otherwise fail to comply with their contractual obligations, Raptor's ability to timely launch any potential product candidate, if approved, would be jeopardized.

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In addition, all manufacturers and suppliers of pharmaceutical products must comply with cGMP requirements enforced by the FDA, through its facilities inspection program. The FDA is likely to conduct inspections of Raptor's third party manufacturer and key supplier facilities as part of their review of any Raptor NDAs. If Raptor's third party manufacturers and key suppliers are not in compliance with cGMP requirements, it may result in a delay of approval, particularly if these sites are supplying single source ingredients required for the manufacture of any potential product. These cGMP requirements include quality control, quality assurance and the maintenance of records and documentation. Furthermore, regulatory qualifications of manufacturing facilities are applied on the basis of the specific facility being used to produce supplies. As a result, if a manufacturer for Raptor shifts production from one facility to another, the new facility must go through a complete regulatory qualification and be approved by regulatory authorities prior to being used for commercial supply. Raptor manufacturers may be unable to comply with these cGMP requirements and with other FDA, state and foreign regulatory requirements. A failure to comply with these requirements may result in fines and civil penalties, suspension of production, suspension or delay in product approval, product seizure or recall, or withdrawal of product approval. If the safety of any quantities supplied is compromised due to a Raptor third party manufacturer's or key supplier's failure to adhere to applicable laws or for other reasons, Raptor may not be able to obtain regulatory approval for or successfully commercialize its products.

If Raptor fails to obtain or maintain orphan drug exclusivity for some of its drug product candidates, Raptor's competitors may sell products to treat the same conditions and Raptor's revenues will be reduced.

As part of Raptor's business strategy, Raptor intends to develop some drugs that may be eligible for FDA and European Union, or EU, orphan drug designation. Under the Orphan Drug Act, the FDA may designate a product as an orphan drug if it is a drug intended to treat a rare disease or condition, defined as a patient population of less than 200,000 in the U.S. The company that first obtains FDA approval for a designated orphan drug for a given rare disease receives marketing exclusivity for use of that drug for the stated condition for a period of seven years. Orphan drug exclusive marketing rights may be lost if the FDA later determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the drug. Similar regulations are available in the EU with a 10-year period of market exclusivity.

Because the extent and scope of patent protection for some of Raptor's drug products is particularly limited, orphan drug designation is especially important for its products that are eligible for orphan drug designation. For eligible drugs, Raptor plans to rely on the exclusivity period under Orphan Drug Act designation to maintain a competitive position. If Raptor does not obtain orphan drug exclusivity for its drug products that do not have patent protection, Raptor's competitors may then sell the same drug to treat the same condition and Raptor's revenues will be reduced.

Even though Raptor has obtained orphan drug designation for DR Cysteamine for the potential treatment of nephropathic cystinosis, the potential treatment of HD and the potential treatment of Batten Disease and even if Raptor obtains orphan drug designation for its future drug product candidates, due to the uncertainties associated with developing pharmaceutical products, Raptor may not be the first to obtain marketing approval for any orphan indication. Further, even if Raptor obtains orphan drug exclusivity for a product, that exclusivity may not effectively protect the product from competition because different drugs can be approved for the same condition. Even after an orphan drug is approved, the FDA can subsequently approve the same drug for the same condition if the FDA concludes that the later drug is safer, more effective or makes a major contribution to patient care. Orphan drug designation neither shortens the development time or regulatory review time of a drug, nor gives the drug any advantage in the regulatory review or approval process.

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The fast-track designation for Raptor's drug product candidates, if obtained, may not actually lead to a faster review process and a delay in the review process or in the approval of Raptor's products will delay revenue from the sale of the products and will increase the capital necessary to fund these product development programs.

Although Raptor has received Orphan Drug Designations from the FDA as described above, Raptor's drug product candidates may not receive an FDA fast-track designation or priority review. Without fast-track designation, submitting an NDA and getting through the regulatory process to gain marketing approval is a lengthy process. Under fast-track designation, the FDA may initiate review of sections of a fast-track drug's NDA before the application is complete. However, the FDA's time period goal for reviewing an application does not begin until the last section of the NDA is submitted. Additionally, the fast-track designation may be withdrawn by the FDA if the FDA believes that the designation is no longer supported by data emerging in the clinical trial process. Under the FDA policies, a drug candidate is eligible for priority review, or review within a six-month time frame from the time a complete NDA is accepted for filing, if the drug candidate provides a significant improvement compared to marketed drugs in the treatment, diagnosis or prevention of a disease. A fast-track designated drug candidate would ordinarily meet the FDA's criteria for priority review. The fast-track designation for Raptor's drug product candidates, if obtained, may not actually lead to a faster review process and a delay in the review process or in the approval of Raptor's products will delay revenue from the sale of the products and will increase the capital necessary to fund these product development programs.

Because the target patient populations for some of Raptor's products are small, Raptor must achieve significant market share and obtain high per-patient prices for its products to achieve profitability.

Raptor's clinical development of DR Cysteamine targets diseases with small patient populations, including nephropathic cystinosis and HD. If Raptor is successful in developing DR Cysteamine and receives regulatory approval to market DR Cysteamine for a disease with a small patient population, the per-patient prices at which Raptor could sell DR Cysteamine for these indications are likely to be relatively high in order for Raptor to recover its development costs and achieve profitability. Raptor believes that it will need to market DR Cysteamine for these indications worldwide to achieve significant market penetration of this product.

Raptor may not be able to market or generate sales of its products to the extent anticipated.

Assuming that Raptor is successful in developing its drug product candidates and receive regulatory clearances to market its products, Raptor's ability to successfully penetrate the market and generate sales of those products may be limited by a number of factors, including the following:

Certain of Raptor's competitors in the field have already received regulatory approvals for and have begun marketing similar products in the U.S., the EU, Japan and other territories, which may result in greater physician awareness of their products as compared to Raptor's.

Information from Raptor's competitors or the academic community indicating that current products or new products are more effective than Raptor's future products could, if and when it is generated, impede Raptor's market penetration or decrease its future market share.

Physicians may be reluctant to switch from existing treatment methods, including traditional therapy agents, to Raptor's future products.

The price for Raptor's future products, as well as pricing decisions by Raptor's competitors, may have an effect on Raptor's revenues.

Raptor's future revenues may diminish if third-party payers, including private healthcare coverage insurers and healthcare maintenance organizations, do not provide adequate coverage or reimbursement for Raptor's future products.

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There are many difficult challenges associated with developing proteins that can be used to transport therapeutics across the blood-brain barrier.

Raptor's RAP technology has a potential clinical use as a drug transporter through the blood-brain barrier. However, Raptor does not know that its technology will work or work safely. Many groups and companies have attempted to solve the critical medical challenge of developing an efficient method of transporting therapeutic proteins from the blood stream into the brain. Unfortunately, these efforts to date have met with little success due in part to a lack of adequate understanding of the biology of the blood-brain barrier and to the enormous scientific complexity of the transport process itself.

In the research and development of its RAP technology, Raptor will certainly face many of the same issues that have caused these earlier attempts to fail. It is possible that:

Raptor or its collaborator/licensee will not be able to produce enough RAP drug product candidates for testing;

the pharmacokinetics, or where the drug distributes in the body, of Raptor's RAP drug product candidates will preclude sufficient binding to the targeted receptors on the blood-brain barrier;

the targeted receptors are not transported across the blood-brain barrier;

other features of the blood-brain barrier, apart from the cells, block access molecules to brain tissue after transport across the cells;

the targeted receptors are expressed on the blood-brain barrier at densities insufficient to allow adequate transport of Raptor's RAP drug product candidates into the brain;

targeting of the selected receptors induces harmful side-effects which prevent their use as drugs; or

that Raptor or its collaborator/licensee's RAP drug product candidates themselves cause unacceptable side-effects.

Any of these conditions may preclude the use of RAP or RAP fusion compounds from potentially treating diseases affecting the brain.

If Raptor's competitors succeed in developing products and technologies that are more effective than its own, or if scientific developments change Raptor's understanding of the potential scope and utility of its drug product candidates, then Raptor's technologies and future drug product candidates may be rendered less competitive.

Raptor faces significant competition from industry participants that are pursuing similar technologies that Raptor is pursuing and are developing pharmaceutical products that are competitive with Raptor's drug product candidates. Nearly all of Raptor's industry competitors have greater capital resources, larger overall research and development staffs and facilities, and a longer history in drug discovery and development, obtaining regulatory approval and pharmaceutical product manufacturing and marketing than Raptor does. With these additional resources, Raptor's competitors may be able to respond to the rapid and significant technological changes in the biotechnology and pharmaceutical industries faster than Raptor can. Raptor's future success will depend in large part on its ability to maintain a competitive position with respect to these technologies. Rapid technological development, as well as new scientific developments, may result in Raptor's compounds, drug product candidates or processes becoming obsolete before Raptor can recover any of the expenses incurred to develop them. For example, changes in Raptor's understanding of the appropriate population of patients who should be treated with a targeted therapy like Raptor is developing may limit the drug's market potential if it is subsequently demonstrated that only certain subsets of patients should be treated with the targeted therapy.

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Raptor's reliance on third parties, such as collaborators, university laboratories, contract manufacturing organizations and contract or clinical research organizations, may result in delays in completing, or a failure to complete, preclinical testing or clinical trials if they fail to perform under Raptor's agreements with them.

In the course of product development, Raptor may engage university laboratories, other biotechnology or companies or contract or clinical manufacturing organizations to manufacture drug material for Raptor to be used in preclinical and clinical testing and collaborators and contract or clinical research organizations to conduct and manage preclinical studies and clinical trials. If Raptor engages these organizations to help Raptor with its preclinical and clinical programs, many important aspects of this process have been and will be out of Raptor's direct control. If any of these organizations Raptor may engage in the future fail to perform their obligations under Raptor's agreements with them or fail to perform preclinical testing and/or clinical trials in a satisfactory manner, Raptor may face delays in completing its clinical trials, as well as commercialization of any of its drug product candidates. Furthermore, any loss or delay in obtaining contracts with such entities may also delay the completion of Raptor's clinical trials, regulatory filings and the potential market approval of its drug product candidates.

Companies and universities that have licensed product candidates to Raptor for research, clinical development and marketing are sophisticated competitors that could develop similar products to compete with Raptor products which could reduce Raptor's future revenues.

Licensing Raptor product candidates from other companies, universities or individuals does not always prevent them from developing non-identical but competitive products for their own commercial purposes, nor from pursuing patent protection in areas that are competitive with Raptor. While Raptor seeks patent protection for all of its owned and licensed product candidates, Raptor's licensors or assignors who created these product candidates are experienced scientists and business people who may continue to do research and development and seek patent protection in the same areas that led to the discovery of the product candidates that they licensed or assigned to Raptor. By virtue of the previous research that led to the discovery of the drugs or product candidates that they licensed or assigned to Raptor, these companies, universities, or individuals may be able to develop and market competitive products in less time than might be required to develop a product with which they have no prior experience and may reduce Raptor's future revenues from such product candidates.

Any future product revenues could be reduced by imports from countries where Raptor's product candidates are available at lower prices.

Even if Raptor obtains FDA approval to market its potential products in the United States, Raptor's sales in the United States may be reduced if Raptor's products are imported into the United States from lower priced markets, whether legally or illegally. In the United States, prices for pharmaceuticals are generally higher than in the bordering nations of Canada and Mexico. There have been proposals to legalize the import of pharmaceuticals from outside the United States. If such legislation were enacted, the Raptor's potential future revenues could be reduced.

The use of any of Raptor's drug product candidates in clinical trials may expose Raptor to liability claims.

The nature of Raptor's business exposes it to potential liability risks inherent in the testing, manufacturing and marketing of Raptor's drug product candidates. While Raptor is in clinical stage testing, its drug product candidates could potentially harm people or allegedly harm people and Raptor may be subject to costly and damaging product liability claims. Some of the patients who participate in clinical trials are already critically ill when they enter a trial. The waivers Raptor obtains may not be enforceable and may not protect Raptor from liability or the costs of product liability litigation. Although Raptor currently carries a \$3 million clinical product liability insurance policy, it may not be sufficient to cover future claims. Raptor currently does not have any clinical or product liability claims or threats of claims filed against it.

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Raptor's future success depends, in part, on the continued service of its management team.

Raptor's success is dependent in part upon the availability of its senior executive officers, including its Chief Executive Officer, Dr. Christopher M. Starr, its Chief Scientific Officer, Dr. Todd C. Zankel, its Chief Financial Officer, Kim R. Tsuchimoto, Ted Daley, the President of Raptor's clinical development subsidiary and Dr. Patrice P. Rioux, Chief Medical Officer of Raptor's clinical development subsidiary. The loss or unavailability to Raptor of any of these individuals or key research and development personnel, and particularly if lost to competitors, could have a material adverse effect on Raptor's business, prospects, financial condition, and operating results. Raptor has no key-man insurance on any of its employees.

Raptor's success depends on its ability to manage its growth.

If Raptor is able to raise significant additional financing, it expects to continue to grow, which could strain Raptor's managerial, operational, financial and other resources. With the addition of Raptor's clinical-stage programs and with Raptor's plans to in-license and acquire additional clinical-stage product candidates, Raptor will be required to retain experienced personnel in the regulatory, clinical and medical areas over the next several years. Also, as Raptor's preclinical pipeline diversifies through the acquisition or in-licensing of new molecules, Raptor will need to hire additional scientists to supplement its existing scientific expertise over the next several years.

Raptor's staff, financial resources, systems, procedures or controls may be inadequate to support its operations and Raptor's management may be unable to take advantage of future market opportunities or manage successfully Raptor's relationships with third parties if Raptor is unable to adequately manage its anticipated growth and the integration of new personnel.

Raptor's executive offices and laboratory facility are located near known earthquake fault zones, and the occurrence of an earthquake or other catastrophic disaster could cause damage to its facility and equipment, or that of its third-party manufacturers or single-source suppliers, which could materially impair Raptor's ability to continue its product development programs.

Raptor's executive offices and laboratory facility are located in the San Francisco Bay Area near known earthquake fault zones and are vulnerable to significant damage from earthquakes. Raptor and the third-party manufacturers with whom it contracts and Raptor's single-source suppliers of raw materials are also vulnerable to damage from other types of disasters, including fires, floods, power loss and similar events. If any disaster were to occur, Raptor's ability to continue its product development programs, could be seriously, or potentially completely impaired. The insurance Raptor maintains may not be adequate to cover its losses resulting from disasters or other business interruptions.

Raptor will incur increased costs as a result of recently enacted and proposed changes in laws and regulations.

Raptor faces burdens relating to the recent trend toward stricter corporate governance and financial reporting standards. Legislation or regulations such as Section 404 of the Sarbanes-Oxley Act of 2002 follow the trend of imposing stricter corporate governance and financial reporting standards have led to an increase in the costs of compliance for companies similar to Raptor's, including increases in consulting, auditing and legal fees. New rules could make it more difficult or more costly for Raptor to obtain certain types of insurance, including directors and officers' liability insurance, and Raptor may be forced to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. The impact of these events could also make it more difficult for Raptor to attract and retain qualified persons to serve on its board of directors, its board committees or as executive officers. Failure to comply with these new laws and regulations may impact market perception of Raptor's financial condition and could materially harm its business. Additionally, it is unclear what additional laws or regulations may develop, and Raptor cannot predict the ultimate impact of any future changes in law.

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Risks Related to Raptor's Intellectual Property

If Raptor is unable to protect its proprietary technology, Raptor may not be able to compete as effectively and Raptor's business and financial prospects may be harmed.

Where appropriate, Raptor seeks patent protection for certain aspects of its technology. Patent protection may not be available for some of the drug product candidates Raptor is developing. If Raptor must spend significant time and money protecting its patents, designing around patents held by others or licensing, potentially for large fees, patents or other proprietary rights held by others, Raptor's business and financial prospects may be harmed.

The patent positions of biopharmaceutical products are complex and uncertain.

Raptor owns or licenses patent applications related to certain of its drug product candidates. However, these patent applications do not ensure the protection of Raptor's intellectual property for a number of reasons, including the following:

Raptor does not know whether its patent applications will result in issued patents. For example, Raptor may not have developed a method for treating a disease before others developed similar methods.

Competitors may interfere with Raptor's patent process in a variety of ways. Competitors may claim that they invented the claimed invention prior to Raptor. Competitors may also claim that Raptor is infringing on their patents and therefore cannot practice Raptor's technology as claimed under its patents, if issued. Competitors may also contest Raptor's patents, if issued, by showing the patent examiner that the invention was not original, was not novel or was obvious. In litigation, a competitor could claim that Raptor's patents, if issued, are not valid for a number of reasons. If a court agrees, Raptor would lose that patent. As a company, Raptor has no meaningful experience with competitors interfering with its patents or patent applications.

Enforcing patents is expensive and may absorb significant time of Raptor's management. Management would spend less time and resources on developing drug product candidates, which could increase Raptor's operating expenses and delay product programs.

Receipt of a patent may not provide much practical protection. If Raptor receives a patent with a narrow scope, then it will be easier for competitors to design products that do not infringe on Raptor's patent.

In addition, competitors also seek patent protection for their technology. Due to the number of patents in Raptor's field of technology, Raptor cannot be certain that it does not infringe on those patents or that Raptor will not infringe on patents granted in the future. If a patent holder believes Raptor's drug product candidate infringes on its patent, the patent holder may sue Raptor even if Raptor has received patent protection for Raptor's technology. If someone else claims Raptor infringes on their technology, Raptor would face a number of issues, including the following:

Defending a lawsuit takes significant time and can be very expensive.

If the court decides that Raptor's drug product candidate infringes on the competitor's patent, Raptor may have to pay substantial damages for past infringement.

The court may prohibit Raptor from selling or licensing the drug product candidate unless the patent holder licenses the patent to Raptor. The patent holder is not required to grant Raptor a license. If a license is available, Raptor may have to pay substantial royalties or grant cross licenses to its patents.

Redesigning Raptor's drug product candidates so it does not infringe may not be possible or could require substantial funds and time.

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It is also unclear whether Raptor's trade secrets are adequately protected. While Raptor uses reasonable efforts to protect its trade secrets, Raptor's employees or consultants may unintentionally or willfully disclose Raptor's information to competitors.

Enforcing a claim that someone else illegally obtained and is using Raptor's trade secrets, like patent litigation, is expensive and time consuming, and the outcome is unpredictable. In addition, courts outside the U.S. are sometimes less willing to protect trade secrets. Raptor's competitors may independently develop equivalent knowledge, methods and know-how.

Raptor may also support and collaborate in research conducted by government organizations, hospitals, universities or other educational institutions. These research partners may be unwilling to grant Raptor any exclusive rights to technology or products derived from these collaborations prior to entering into the relationship.

If Raptor does not obtain required licenses or rights, Raptor could encounter delays in its product development efforts while it attempts to design around other patents or even be prohibited from developing, manufacturing or selling drug product candidates requiring these licenses. There is also a risk that disputes may arise as to the rights to technology or drug product candidates developed in collaboration with other parties.

If Raptor is sued for infringing intellectual property rights of other parties, such litigation will be costly and time consuming, and an unfavorable outcome would have a significant adverse effect on the business of Raptor.

Although Raptor believes that it would have valid defenses to allegation that its current product candidates, production methods and other activities infringe the valid and enforceable intellectual property rights of any third parties of which it is aware, Raptor cannot be certain that a third party will not challenge its position in the future. Other parties may own patent rights that might be infringed by Raptor's product candidates or other activities. There has been and Raptor believes that there will continue to be, significant litigation and demands for licenses in the life sciences industry regarding patent and other intellectual property rights. Competitors or other patent holders may assert that Raptor product candidates and the methods Raptor employs are covered by their patents. These parties could bring claims against Raptor that would cause it to incur substantial expenses and, if successful against Raptor, could cause it to pay substantial damages or possibly prevent it from commercializing its product candidates. Further, if a patent infringement suit were brought against Raptor, Raptor could be forced to stop or delay research or development of the product candidate that is the subject of the lawsuit.

As a result of patent infringement claims, or in order to avoid potential claims, Raptor may choose to seek, or be required to seek, a license from the third party and would likely be required to pay license fees or royalties or both. These licenses may not be available on acceptable terms, or at all. Even if Raptor was able to obtain a license, the rights may be non-exclusive, which would give competitors access to the same intellectual property. Ultimately, Raptor could be prevented from commercializing a product candidate, or be forced to cease some aspect of its business operations if, as a result of actual or threatened patent infringement claims, Raptor or its collaborators are unable to enter into licenses on acceptable terms. This could harm Raptor's business significantly.

If Raptor agreements with employees, consultants, advisors and corporate partners fail to protect its intellectual property, proprietary information or trade secrets, it could have a significant adverse effect on Raptor.

Raptor has taken steps to protect its intellectual property and proprietary technology, by entering into confidentiality agreements and intellectual property assignment agreements with its employees, consultants, advisors and corporate partners. Such agreements may not be enforceable or may not provide meaningful protection for Raptor trade secrets or other proprietary information in the event of unauthorized use or disclosure or other breaches of the agreements, and Raptor may not be able to prevent such unauthorized disclosure. Monitoring unauthorized disclosure is difficult, and Raptor does not know whether the steps it has taken to

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prevent such disclosure are, or will be, adequate. Furthermore, the laws of some foreign countries may not protect Raptor intellectual property rights to the same extent as do the laws of the United States.

Risks Related to Raptor's Common Stock

Raptor is obligated to issue additional common stock based on its contractual obligations, if Raptor meets certain triggering events, if at all. When Raptor issues such additional common stock, this will result in dilution to common stockholders at the time such additional common stock is issued.

Future milestone payments, as more fully set forth under Contractual Obligations with Thomas E. Daley (as assignee of the dissolved Convivia, Inc.) and Contractual Obligations with Former Encode Stockholders discussed elsewhere in this joint proxy statement/prospectus, relating to Raptor's acquisition of the Convivia assets and merger with Encode will result in dilution. Raptor may be required to make additional contingent payments of up to 3.1 million shares of its common stock, in the aggregate, under the terms of Raptor's acquisition of Convivia assets and merger with Encode, based on milestones related to certain future marketing and development approvals obtained with respect to Convivia and Encode product candidates. The issuance of any of these shares will result in further dilution to Raptor's existing stockholders.

In May and June 2008, pursuant to a securities purchase agreement for a private placement of units, Raptor issued 20 million shares of its common stock and two-year warrants to purchase up to, in the aggregate, 10 million shares of Raptor's common stock as well as five-year warrants to purchase up to, in the aggregate, 2.1 million shares of Raptor's common stock to placement agents in such private placement. On April 29, 2009, in order to reflect current market prices, Raptor notified the holders of warrants purchased in the May/June 2008 private placement that Raptor was offering, in exchange for such warrants, new warrants to purchase Raptor's common stock at an exercise price of \$0.30 per share, but only to the extent such exchange of the original warrants and exercise of the new warrants, including the delivery of the exercise price, occurred on or prior to July 17, 2009. The warrants that were not exchanged prior to or on July 17, 2009 retained their original exercise prices of \$0.90 per share and original expiration date of May 21, 2010. Raptor received approximately \$2.6 million of proceeds from warrant exercises that resulted in the issuance of 8,715,000 shares of Raptor's common stock pursuant to the exchange described above. In August 2009, pursuant to a securities purchase agreement for a private placement of units, Raptor issued 7,456,250 shares of its common stock and two-year warrants to purchase up to, in the aggregate, 3,728,125 shares of Raptor's common stock as well as a five-year warrant to purchase up to, in the aggregate, 556,500 shares of Raptor's common stock to a placement agent in such private placement. These stock issuances and other future issuances of common stock underlying unexpired and unexercised warrants have and will result in, significant dilution to Raptor's stockholders.

In connection with other collaborations, joint ventures or license agreements that Raptor may enter into in the future, Raptor may issue additional shares of common stock or other equity securities, and the value of the securities issued may be substantial and create additional dilution to Raptor's existing and future common stockholders.

There is no active trading market for Raptor's common stock and if a market for its common stock does not develop, Raptor's investors will be unable to sell their shares.

There is currently no active trading market for Raptor's common stock and such a market may not develop or be sustained. Shares of Raptor's common stock are eligible for quotation on the FINRA OTC Bulletin Board but there has been very limited trading of Raptor's common stock. Raptor cannot provide its investors with any assurance that a public market will materialize.

Further, the OTC Bulletin Board is not a listing service or exchange, but is instead a dealer quotation service for subscribing members. If Raptor's common stock is not quoted on the OTC Bulletin Board or if a public market for Raptor's common stock does not develop, then investors may not be able to resell the shares of Raptor's common stock that they have purchased and may lose all of their investment. If Raptor establishes a trading market for its common stock, the market price of its common stock may be significantly affected by factors such as actual or anticipated fluctuations in Raptor's operating results, Raptor's ability or perceived ability to reach corporate milestones, general market conditions and other factors. In addition, the stock market

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has from time to time experienced significant price and volume fluctuations that have particularly affected the market prices for the shares of development stage companies. As Raptor is a development stage company such fluctuations may negatively affect the market price of Raptor's common stock.

Because Raptor does not intend to pay any cash dividends on its common stock, investors seeking dividend income or liquidity should not purchase shares of Raptor's common stock.

Raptor has not declared or paid any cash dividends on its common stock since its inception, and Raptor does not anticipate paying any such cash dividends for the foreseeable future. Investors seeking dividend income or liquidity should not invest in Raptor's common stock.

Raptor's stock is a penny stock. Trading of Raptor's stock may be restricted by the SEC's penny stock regulations and the FINRA's sales practice requirements, which may limit a stockholder's ability to buy and sell Raptor's stock.

Raptor's common stock is a penny stock. The SEC has adopted Rule 15c-9 which generally defines "penny stock" to be any equity security that has a market price less than \$5.00 per share or an exercise price of less than \$5.00 per share, subject to certain exceptions. Raptor's securities are covered by the penny stock rules, which impose additional sales practice requirements on broker-dealers who sell to persons other than established customers and institutional accredited investors. The penny stock rules require a broker-dealer, prior to a transaction in a penny stock not otherwise exempt from the rules, to deliver a standardized risk disclosure document in a form prepared by the SEC which provides information about penny stocks and the nature and level of risks in the penny stock market. The broker-dealer also must provide the customer with current bid and offer quotations for the penny stock, the compensation of the broker-dealer and its salesperson in the transaction and monthly account statements showing the market value of each penny stock held in the customer's account. The bid and offer quotations, and the broker-dealer and salesperson compensation information, must be given to the customer orally or in writing prior to effecting the transaction and must be given to the customer in writing before or with the customer's confirmation. In addition, the penny stock rules require that prior to a transaction in a penny stock not otherwise exempt from these rules, the broker-dealer must make a special written determination that the penny stock is a suitable investment for the purchaser and receive the purchaser's written agreement to the transaction. These disclosure requirements may have the effect of reducing the level of trading activity in the secondary market for the stock that is subject to these penny stock rules. Consequently, these penny stock rules may affect the ability of broker-dealers to trade Raptor's securities. Raptor believes that the penny stock rules discourage investor interest in and limit the marketability of Raptor's common stock.

In addition to the penny stock rules promulgated by the SEC, the FINRA has adopted rules that require that in recommending an investment to a customer, a broker-dealer must have reasonable grounds for believing that the investment is suitable for that customer. Prior to recommending speculative low priced securities to their non-institutional customers, broker-dealers must make reasonable efforts to obtain information about the customer's financial status, tax status, investment objectives and other information. Under interpretations of these rules, the FINRA believes that there is a high probability that speculative low priced securities will not be suitable for at least some customers. The FINRA requirements make it more difficult for broker-dealers to recommend that their customers buy Raptor's common stock, which may limit your ability to buy and sell Raptor's stock.

Raptor's stock price may be volatile, and an investment in Raptor's stock could suffer a decline in value.

If Raptor establishes a trading market for its common stock, the market price of that stock is likely to fluctuate due to factors including:

results of its preclinical studies and clinical trials;

commencement and progress of its drug product candidates through the regulatory process;

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announcements of technological innovations or new products by Raptor or its competitors;

government regulatory action affecting Raptor's drug product candidates or its competitors' drug products in both the U.S. and foreign countries;

developments or disputes concerning patent or proprietary rights;

general market conditions and fluctuations for the emerging growth biotechnology and pharmaceutical market sectors;

economic conditions and broad market fluctuations in the U.S. or abroad; and

actual or anticipated fluctuations in Raptor's operating results.

Anti-takeover provisions under Delaware law may make an acquisition of Raptor, which may be beneficial to its stockholders, more difficult.

Raptor is incorporated in Delaware. Certain anti-takeover provisions of Delaware law as currently in effect may make a change in control of Raptor more difficult, even if a change in control would be beneficial to the stockholders. In December 2008, Raptor entered into a stockholder rights plan with Nevada Agency and Transfer Company, as Rights Agent. The terms of the stockholder rights plan provide for a dividend distribution, as authorized and declared by Raptor's board of directors, of one preferred stock purchase right for each outstanding share of Raptor's common stock to stockholders of record on and after the close of business on December 19, 2008. Each such right entitles the registered holder to purchase from Raptor one one-thousandth of one share of Series A junior participating preferred stock, par value \$0.001 per share, of Raptor, at a purchase price equal to \$5.50 per right, subject to adjustment. The rights will, subject to certain exceptions, cause substantial dilution to a person or group that acquires 20% or more of Raptor's common stock on terms not approved by Raptor's board of directors. However, the rights may have the effect of making an acquisition of Raptor, which may be beneficial to its stockholders, more difficult, and the existence of such rights may prevent or reduce the likelihood of a third-party making an offer for an acquisition of Raptor. In connection with the stockholder rights plan, Raptor's board of directors designated 1,000,000 shares of preferred stock as Series A junior participating preferred stock, as set forth in the Certificate of Designation of Series A Junior Participating Preferred Stock. The Certificate of Designation, which amended Raptor's Certificate of Incorporation, was filed with the Secretary of State of the State of Delaware on December 9, 2008. On July 27, 2009, Raptor and the Rights Agent amended the stockholder rights plan to exclude the merger between TorreyPines and Raptor from becoming a triggering event under the plan.

Raptor's board of directors has the authority to issue up to 10,000,000 shares of preferred stock, none of which are issued or outstanding and to determine without any further action by Raptor's stockholders the terms of 9,000,000 shares of such preferred stock. The rights of holders of Raptor's common stock are subject to the rights of the holders of any preferred stock that may be issued. The issuance of preferred stock could make it more difficult for a third-party to acquire a majority of Raptor's outstanding voting stock. Raptor's charter contains provisions that may enable Raptor's management to resist an unwelcome takeover attempt by a third party, including: a prohibition on actions by written consent of Raptor's stockholders; the fact that stockholder meetings must be called by Raptor's board of directors; and provisions requiring stockholders to provide advance notice of proposals. Delaware law also prohibits corporations from engaging in a business combination with any holders of 15% or more of their capital stock until the holder has held the stock for three years unless, among other possibilities, the board of directors approves the transaction. Raptor's board of directors may use these provisions to prevent changes in the management and control of Raptor. Also, under applicable Delaware law, Raptor's board of directors may adopt additional anti-takeover measures in the future.

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Risks Related to the Combined Company

In determining whether you should approve the merger, the issuance of shares of TorreyPines common stock and other matters related to the merger, as the case may be, you should carefully read the following risk factors in addition to the risks described under Risk Factors Risks Related to TorreyPines and Risk Factors Risks Related to Raptor, which will also apply to the combined company.

The combined company's stock price is expected to be volatile, and the market price of its common stock may drop following the merger.

The market price of the combined company's common stock could be subject to significant fluctuations following the merger. Market prices for securities of early-stage pharmaceutical, biotechnology and other life sciences companies have historically been particularly volatile. Some of the factors that may cause the market price of the combined company's common stock to fluctuate include:

the results of the combined company's current and any future clinical trials of its drug candidates;

the results of ongoing preclinical studies and planned clinical trials of the combined company's preclinical drug candidates;

the entry into, or termination of, key agreements, including key strategic alliance agreements;

the results and timing of regulatory reviews relating to the approval of the combined company's drug candidates;

the initiation of, material developments in, or conclusion of litigation to enforce or defend any of the combined company's intellectual property rights;

failure of any of the combined company's drug candidates, if approved, to achieve commercial success;

general and industry-specific economic conditions that may affect the combined company's research and development expenditures;

the results of clinical trials conducted by others on drugs that would compete with the combined company's drug candidates;

issues in manufacturing the combined company's drug candidates or any approved products;

the loss of key employees;

the introduction of technological innovations or new commercial products by competitors of the combined company;

changes in estimates or recommendations by securities analysts, if any, who cover the combined company's common stock;

future sales of the combined company's common stock;

changes in the structure of health care payment systems; and

period-to-period fluctuations in the combined company's financial results.

Moreover, the stock markets in general have experienced substantial volatility that has often been unrelated to the operating performance of individual companies. These broad market fluctuations may also adversely affect the trading price of the combined company's common stock.

In the past, following periods of volatility in the market price of a company's securities, stockholders have often instituted class action securities litigation against those companies. Such litigation, if instituted, could result in substantial costs and diversion of management attention and resources, which could significantly harm the combined company's profitability and reputation.

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The combined company's management will be required to devote substantial time to comply with public company regulations.

The Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, as well as rules subsequently implemented by the SEC and NASDAQ, impose various requirements on public companies, including with respect to corporate governance practices. The combined company's management and other personnel will need to devote a substantial amount of time to these requirements.

In addition, the Sarbanes-Oxley Act requires, among other things, that the combined company maintain effective internal controls for financial reporting and disclosure controls and procedures. In particular, the combined company must perform system and process evaluation and testing of its internal controls over financial reporting to allow management to report on the effectiveness of its internal controls over financial reporting, as required by Section 404 of the Sarbanes-Oxley Act. The combined company's compliance with Section 404 will require that it incur substantial accounting and related expense and expend significant management efforts. The combined company may need to hire additional accounting and financial staff to satisfy the ongoing requirements of Section 404. Moreover, if the combined company is not able to comply with the requirements of Section 404, or if the combined company or its independent registered public accounting firm identifies deficiencies in its internal controls over financial reporting that are deemed to be material weaknesses, the market price of the combined company's stock could decline and the combined company could be subject to sanctions or investigations by NASDAQ, the SEC or other regulatory authorities.

Anti-takeover provisions in the combined company's stockholder rights plan and in its certificate of incorporation and bylaws may prevent or frustrate attempts by stockholders to change the board of directors or current management and could make a third-party acquisition of the combined company difficult.

The combined company will be party to a stockholder rights plan, also referred to as a poison pill, which is intended to deter a hostile takeover of the combined company by making such proposed acquisition more expensive and less desirable to the potential acquirer. The stockholder rights plan and the combined company's certificate of incorporation and bylaws, as amended, will contain provisions that may discourage, delay or prevent a merger, acquisition or other change in control that stockholders may consider favorable, including transactions in which stockholders might otherwise receive a premium for their shares. These provisions could limit the price that investors might be willing to pay in the future for shares of the combined company's common stock.

The pro forma financial statements are presented for illustrative purposes only and may not be an indication of the combined company's financial condition or results of operations following the merger.

The pro forma financial statements contained in this proxy statement/prospectus are presented for illustrative purposes only and may not be an indication of the combined company's financial condition or results of operations following the merger for several reasons. For example, the pro forma financial statements have been derived from the historical financial statements of TorreyPines and Raptor and certain adjustments and assumptions have been made regarding the combined company after giving effect to the merger. The information upon which these adjustments and assumptions have been made is preliminary, and these kinds of adjustments and assumptions are difficult to make with complete accuracy. Moreover, the pro forma financial statements do not reflect all costs that are expected to be incurred by the combined company in connection with the merger. For example, the impact of any incremental costs incurred in integrating the two companies is not reflected in the pro forma financial statements. As a result, the actual financial condition and results of operations of the combined company following the merger may not be consistent with, or evident from, these pro forma financial statements.

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The combined company may continue to incur losses for the foreseeable future, and might never achieve profitability.

TorreyPines began operations in 1997 and has incurred a net operating loss in each year since its inception, and TorreyPines may never achieve profitability. As of June 30, 2009, TorreyPines had an accumulated deficit of approximately \$121.9 million. Raptor began operations in 2005 and has incurred a net operating loss in each year since its inception, and Raptor may never achieve profitability. As of May 31, 2009, Raptor had an accumulated deficit of approximately \$19.9 million. Raptor expects to continue to incur losses for the foreseeable future and will have to raise substantial cash to fund its planned operations.

Raptor believes that its cash and cash equivalents balances as of August 27, 2009, will be sufficient to meet its obligations into the first calendar quarter of 2010. Raptor is currently in the process of reviewing strategic partnerships and collaborations in order to fully fund its preclinical and clinical programs through the end of 2010. If Raptor is not able to close a strategic transaction, it anticipates raising additional capital in the fourth calendar quarter of 2009. These estimates are based on assumptions that may prove to be wrong. In addition to the activities described herein above, Raptor anticipates that it will need to raise funds in the future for the continued development of its drug development programs. Raptor will need to sell equity or debt securities to raise significant additional funds. The sale of additional securities is likely to result in additional dilution to Raptor's stockholders. Additional financing, may not be available in amounts or on terms satisfactory to Raptor or at all. Raptor may be unable to raise additional financing due to a variety of factors, including its financial condition, the status of its research and development programs, and the general condition of the financial markets. If Raptor fails to raise significant additional financing, it will have to delay or terminate some or all of its research and development programs, its financial condition and operating results will be adversely affected and it may have to cease its operations.

Based upon the combined company's plan to seek strategic partners or seek program-based funding for the TorreyPines pain programs within the TorreyPines subsidiary and the continuation of Raptor's existing plan of operations, the combined company anticipates that the cash estimated to be available at the time of the merger closing, should be sufficient to fund the combined company's operations into the first quarter of 2010. After the merger closing, the combined company will continue to seek strategic development partnerships for ex-US markets for some of its clinical programs, which may defer or negate the need to raise more capital in the fourth quarter of 2009. There can be no assurance that the combined company will be able to identify appropriate strategic development partners or, if it is able to, that it will be able to enter into mutually acceptable agreements with them on terms that are satisfactory to the combined company, or at all. If the combined company is unable to enter into such strategic partnerships, the combined company anticipates raising additional capital in the fourth quarter of 2009; however, there can be no assurance that the combined company will be able to obtain any funding as described herein.

The combined company may never become profitable, even if the combined company is able to commercialize additional products. The combined company will need to conduct significant research, development, testing and regulatory compliance activities that, together with projected general and administrative expenses, is expected to result in substantial increased operating losses for at least the next several years. Even if the combined company does achieve profitability, it may not be able to sustain or increase profitability on a quarterly or annual basis.

The combined company may be required to suspend, repeat or terminate its clinical trials if they do not meet regulatory requirements, the results are negative or inconclusive, or if the trials are not well designed, which may result in significant negative repercussions on the combined company's business and financial condition.

Before regulatory approval for any potential product can be obtained, the combined company must undertake extensive clinical testing on humans to demonstrate the tolerability and efficacy of the product, both on its own terms, and as compared to the other principal drugs on the market that have the same therapeutic

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indication. The combined company cannot assure you that it will obtain authorization to permit product candidates that are already in the preclinical development phase to enter the human clinical testing phase. In addition, the combined company cannot assure you that any authorized preclinical or clinical testing will be completed successfully within any specified time period by the combined company, or without significant additional resources or expertise to those originally expected to be necessary. The combined company cannot assure you that such testing will show potential products to be safe and efficacious or that any such product will be approved for a specific indication. Further, the results from preclinical studies and early clinical trials may not be indicative of the results that will be obtained in later-stage clinical trials. In addition, the combined company or regulatory authorities may suspend clinical trials at any time on the basis that the participants are being exposed to unacceptable health risks.

Completion of clinical tests depends on, among other things, the number of patients available for testing, which is a function of many factors, including the number of patients with the relevant conditions, the nature of the clinical testing, the proximity of patients to clinical testing centers, the eligibility criteria for tests as well as competition with other clinical testing programs involving the same patient profile but different treatments. The combined company will rely on third parties, such as contract research organizations and/or co-operative groups, to assist it in overseeing and monitoring clinical trials as well as to process the clinical results and manage test requests, which may result in delays or failure to complete trials, if the third parties fail to perform or to meet the applicable standards. A failure by the combined company or such third parties to keep to the terms of a product program development for any particular product candidate or to complete the clinical trials for a product candidate in the envisaged time frame could have significant negative repercussions on the combined company's business and financial condition.

Even if the combined company's drug candidates are successful in clinical trials, the combined company may not be able to successfully commercialize them, which may adversely affect the combined company's future revenues and financial condition.

Since TorreyPines' inception in 1997 and since Raptor began operations in 2002, both companies have dedicated substantially all of their resources to the research and development of their technologies and related compounds. All of TorreyPines' and Raptor's compounds currently are preclinical or clinical development, and none have been submitted for marketing approval. The combined company's preclinical compounds may not enter human clinical trials on a timely basis, if at all, and the combined company may not develop any product candidates suitable for commercialization.

Prior to commercialization, each product candidate will require significant additional research, development and preclinical testing and extensive clinical investigation before submission of any regulatory application for marketing approval. Potential products that appear to be promising at early stages of development may not reach the market for a number of reasons, including that they may:

be found ineffective or cause harmful side effects during preclinical testing or clinical trials;

fail to receive necessary regulatory approvals;

be difficult to manufacture on a large scale;

be uneconomical to produce;

fail to achieve market acceptance; or

be precluded from commercialization by proprietary rights of third parties.

The combined company's product development efforts or the combined company's collaborative partners' efforts may not be successfully completed and the combined company may not obtain required regulatory approvals. Any products, if introduced, may not be successfully marketed nor achieve customer acceptance, which may adversely affect the combined company's future revenues and financial condition.

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If the combined company fails to establish and maintain collaborations or if its partners do not perform, the combined company may be unable to develop and commercialize its product candidates, which may adversely affect the combined company's future revenues and financial condition.

Raptor has entered into collaborative arrangements with third parties to develop and/or commercialize product candidates. Additional collaborations might be necessary in order for the combined company to fund its research and development activities and third-party manufacturing arrangements, seek and obtain regulatory approvals and successfully commercialize existing and future product candidates. If the combined company fails to maintain the existing collaborative arrangements held by Raptor or fails to enter into additional collaborative arrangements, the number of product candidates from which the combined company could receive future revenues would decline.

The combined company's dependence on collaborative arrangements with third parties will subject it to a number of risks that could harm the combined company's ability to develop and commercialize products:

collaborative arrangements might not be on terms favorable to the combined company;

disagreements with partners may result in delays in the development and marketing of products, termination of collaboration agreements or time consuming and expensive legal action;

the combined company cannot control the amount and timing of resources partners devote to product candidates or their prioritization of product candidates, and partners may not allocate sufficient funds or resources to the development, promotion or marketing of the combined company's products, or may not perform their obligations as expected;

partners may choose to develop, independently or with other companies, alternative products or treatments, including products or treatments which compete with the combined company's;

agreements with partners may expire or be terminated without renewal, or partners may breach collaboration agreements with the combined company;

business combinations or significant changes in a partner's business strategy might adversely affect that partner's willingness or ability to complete its obligations to the combined company; and

the terms and conditions of the relevant agreements may no longer be suitable.

TorreyPines and Raptor cannot assure you that the combined company will be able to negotiate future collaboration agreements or that those currently in existence will make it possible for the combined company to fulfill its objectives.

The combined company may not complete its clinical trials in the time expected, which could delay or prevent the commercialization of its products, which may adversely affect the combined company's future revenues and financial condition.

Although for planning purposes TorreyPines and Raptor forecast the commencement and completion of clinical trials, the actual timing of these events can vary dramatically due to factors such as delays, scheduling conflicts with participating clinicians and clinical institutions and the rate of patient enrollment. Clinical trials involving the combined company's product candidates may not commence nor be completed as forecasted. In certain circumstances the combined company will rely on academic institutions or clinical research organizations to conduct, supervise or monitor some or all aspects of clinical trials involving the combined company's products. The combined company will have less control over the timing and other aspects of these clinical trials than if it conducted them entirely on its own. These trials may not commence or be completed as either TorreyPines or Raptor expect. They may not be conducted successfully. Failure to commence or complete, or delays in, any of the combined company's planned clinical trials could delay or prevent the commercialization of the combined company's products and harm its

business and may adversely affect the combined company's future revenues and financial condition.

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If the combined company fails to keep pace with rapid technological change in the biotechnology and pharmaceutical industries, its products could become obsolete, which may adversely affect the combined company's future revenues and financial condition.

Biotechnology and related pharmaceutical technology have undergone and are subject to rapid and significant change. TorreyPines and Raptor expect that the technologies associated with biotechnology research and development will continue to develop rapidly. The combined company's future will depend in large part on its ability to maintain a competitive position with respect to these technologies. Any compounds, products or processes that the combined company develops may become obsolete before the combined company recovers any expenses incurred in connection with developing these products, which may adversely affect the combined company's future revenues and financial condition.

If the combined company loses key personnel or is unable to attract and retain additional personnel, the combined company may be unable to pursue collaborations or develop its own products, which could negatively impact the combined company's product candidate development timelines and may adversely affect the combined company's future revenues and financial condition.

The success of the merger will depend in part on the combined company's ability to retain personnel currently employed by Raptor and those key TorreyPines employees who continue employment with the combined company or an affiliate thereof for a transitional period after the merger. It is possible that these employees might decide not to remain with the combined company after the merger is completed. The loss of any key members of the combined company's scientific or management staff, or failure to attract or retain other key scientific employees, could prevent the combined company from pursuing collaborations or developing its products and core technologies. Recruiting and retaining qualified scientific personnel to perform research and development work are critical to the combined company's success. There is intense competition for qualified scientists and managerial personnel from numerous pharmaceutical and biotechnology companies, as well as from academic and government organizations, research institutions and other entities. In addition, the combined company will rely on consultants and advisors, including scientific and clinical advisors, to assist it in formulating its research and development strategy. All of the combined company's consultants and advisors will be employed by other employers or be self-employed, and will have commitments to or consulting or advisory contracts with other entities that may limit their availability to the combined company. There is no assurance that the combined company will be able to retain key employees and/or consultants. If key employees terminate their employment, or if insufficient numbers of employees are retained to maintain effective operations, the combined company's development activities might be adversely affected, management's attention might be diverted from successfully integrating operations to hiring suitable replacements, and the combined company's business might suffer. In addition, the combined company might not be able to locate suitable replacements for any key employees that leave TorreyPines prior to closing the merger or Raptor, and the combined company may not be able to offer employment to potential replacements on reasonable terms, which could negatively impact the combined company's product candidate development timelines and may adversely affect the combined company's future revenues and financial condition.

TorreyPines stockholders will have limited ability to influence the combined company's actions and decisions following the merger.

Following the merger, original TorreyPines stockholders will own 5 percent of the outstanding shares of common stock of the combined company. As a result, original TorreyPines stockholders will have only limited ability to influence the combined company's business. Original TorreyPines stockholders will not have separate approval rights with respect to any actions or decisions of the combined company or have separate representation on the combined company's board of directors.

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If the combined company is not successful in integrating TorreyPines and Raptor, then the benefits of the merger will not be fully realized and the market price of the combined company's common stock may be negatively affected.

The combined company may not achieve successful integration of TorreyPines and Raptor's assets in a timely manner, or at all, and the combined company may not realize the benefits and synergies of the merger to the extent, or in the timeframe, anticipated. TorreyPines and Raptor entered into the merger agreement with the expectation that the merger will result in benefits arising out of the combination of the companies. The successful integration of TorreyPines and Raptor will require, among other things, integration of assets. It is possible that the integration process could result in the loss of key employees, diversion of management's attention, the disruption or interruption of, or the loss of momentum in, on-going business or inconsistencies in standards, controls, procedures and policies, any of which could adversely affect either company's ability to maintain relationships with licensors, collaborators, partners, suppliers and employees or the combined company's ability to achieve the anticipated benefits of the merger, or could otherwise adversely affect the business and financial results of the combined company and, as a result, adversely affect the market price of the combined company's common stock and reduce the combined company's cash position.

TorreyPines and Raptor do not expect the combined company to pay cash dividends, and accordingly, stockholders must rely on stock appreciation for any return on their investment in the combined company.

TorreyPines and Raptor anticipate that the combined company will retain its earnings, if any, for future growth and therefore does not anticipate paying cash dividends in the future. As a result, only appreciation of the price of the combined company's common stock will provide a return to stockholders. Investors seeking cash dividends should not invest in the combined company's common stock.

NASDAQ considers the anticipated merger a reverse merger and therefore has required that TorreyPines submit a new listing application on behalf of the combined company, which requires certain actions on TorreyPines' and Raptor's part which may not be successful and, if unsuccessful, could make it more difficult for holders of shares of the combined company to sell their shares.

NASDAQ considers the merger proposed in this joint proxy statement/prospectus as a reverse merger and has required that TorreyPines, on behalf of the combined company, submit a new listing application. NASDAQ may not approve the combined company's new listing application. If this occurs and the merger is still consummated, stockholders of the combined company may have difficulty converting shares into cash effectively. Additionally, as part of the new listing application, TorreyPines, on behalf of the combined company, will be required to submit, among other things, a plan for TorreyPines to conduct a reverse stock split. A reverse stock split would increase the per share trading price by a yet undetermined multiple. The change in share price may affect the volatility and liquidity of the combined company's stock after the merger, as well as the marketplace's perception of the stock. As a result, the relative price of the combined company's common stock may decline and/or fluctuate more than TorreyPines' or Raptor's common stock has in the past.

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FORWARD-LOOKING STATEMENTS

This joint proxy statement/prospectus contains forward-looking statements of TorreyPines and Raptor within the meaning of the Private Securities Litigation Reform Act of 1995, which is applicable to TorreyPines and Raptor because they are each a public company subject to the reporting requirements of the Exchange Act. These forward-looking statements include:

the potential value and other benefits created by the proposed merger for TorreyPines and Raptor's stockholders;

the efficacy, safety and intended utilization of TorreyPines and Raptor's drug candidates;

the conduct and results of TorreyPines and Raptor's research, discovery and preclinical efforts and clinical trials;

TorreyPines and Raptor's plans regarding future research, discovery and preclinical efforts and clinical activities and collaborative, intellectual property and regulatory activities;

the period in which each of TorreyPines and Raptor expects its cash will be available to fund its current operating plan, both before and after giving effect to the merger;

the listing of the shares of TorreyPines common stock to be issued in the merger on the NASDAQ Capital Market and The NASDAQ Stock Market LLC's acceptance of the initial listing application in connection with the merger;

the amount of net cash TorreyPines anticipates it will hold on the closing date of the merger;

the exchange ratio, the amount of shares TorreyPines expects to issue in connection with the merger and the ratio for the reverse stock split; and

each of TorreyPines and Raptor's results of operations, financial condition and businesses, and products and drug candidates under development and the expected impact of the proposed merger on the combined company's financial and operating performance.

Words such as anticipates, believes, forecast, potential, contemplates, expects, intends, plans, believes, seeks, estimates, can and similar expressions identify forward-looking statements. These forward-looking statements are not guarantees of future performance and are subject to risks and uncertainties that could cause actual results to differ materially from the results contemplated by the forward-looking statements, including the following:

TorreyPines and Raptor may not be able to complete the proposed merger;

The NASDAQ Stock Market LLC may not approve the listing of the shares of TorreyPines common stock to be issued in the merger on the NASDAQ Capital Market or may reject the initial listing application to be filed in connection with the merger;

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TorreyPines net cash at closing may be lower than currently anticipated;

TorreyPines and Raptor's drug candidates that appear promising in early research and clinical trials may not demonstrate safety and efficacy in subsequent clinical trials;

risks associated with reliance on collaborative partners for further clinical trials and other development activities; and

risks involved with development and commercialization of drug candidates.

Many of the important factors that will determine these results and values are beyond TorreyPines and Raptor's ability to control or predict. You are cautioned not to put undue reliance on any forward-looking statements. Except as otherwise required by law, TorreyPines and Raptor do not assume any obligation to update any forward-looking statements. In evaluating the merger, you should carefully consider the discussion of risks and uncertainties in the section titled, "Risk Factors" in this joint proxy statement/prospectus.

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THE ANNUAL MEETING OF TORREYPINES STOCKHOLDERS

General

TorreyPines is furnishing this joint proxy statement/prospectus to holders of TorreyPines common stock in connection with the solicitation of proxies by the TorreyPines board of directors for use at the TorreyPines annual meeting to be held on September 28, 2009 and at any adjournment or postponement thereof. This joint proxy statement/prospectus is first being furnished to the stockholders of TorreyPines on or about September 1, 2009.

Date, Time and Place

The annual meeting of TorreyPines stockholders will be held on September 28, 2009, at Cooley Godward Kronish LLP at 4401 Eastgate Mall, San Diego, CA 92121 commencing at 10:00 a.m. local time.

Purposes of the TorreyPines Annual Meeting

The purposes of the TorreyPines annual meeting are:

1. To consider and vote upon a proposal to approve the issuance of TorreyPines common stock and the resulting change in control pursuant to the Agreement and Plan of Merger and Reorganization, dated as of July 27, 2009, by and among TorreyPines, ECP Acquisition, Inc., a wholly-owned subsidiary of TorreyPines, and Raptor Pharmaceuticals Corp., a Delaware corporation, as described in this joint proxy statement/prospectus.
2. To approve an amendment to TorreyPines certificate of incorporation effecting the reverse stock split, at one of seventeen reverse split ratios: 1-for-10, 1-for-11, 1-for-12, 1-for-13, 1-for-14, 1-for-15, 1-for-17, 1-for-20, 1-for-25, 1-for-30, 1-for-35, 1-for-40, 1-for-45, 1-for-50, 1-for-55, 1-for-60 or 1-for-70, as described in this joint proxy statement/prospectus.
3. To approve an amendment to TorreyPines certificate of incorporation to change the name TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp.
4. To elect the four directors nominated by the TorreyPines board of directors and named herein; provided, however, that if the merger is completed, it is anticipated that the TorreyPines board of directors will consist of the four people identified in this joint proxy statement/prospectus.
5. To consider and vote upon an adjournment of the TorreyPines annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of TorreyPines Proposal Nos. 1, 2 and 3.
6. To transact such other business as may properly come before the TorreyPines annual meeting or any adjournment, postponement or continuation thereof.

Recommendation of TorreyPines Board of Directors

The TorreyPines board of directors has determined and believes that the issuance of shares of TorreyPines common stock pursuant to the merger and the resulting change in control is advisable to, and in the best interests of, TorreyPines and its stockholders and has approved such items. The TorreyPines board of directors unanimously recommends that TorreyPines stockholders vote FOR TorreyPines Proposal No. 1 to approve the issuance of shares of TorreyPines common stock in the

merger and the resulting change in control.

The TorreyPines board of directors has determined and believes that it is advisable to, and in the best interests of, TorreyPines and its stockholders to approve an amendment to TorreyPines certificate of incorporation effecting the reverse stock split, as described in this joint proxy statement/prospectus.

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The TorreyPines board of directors unanimously recommends that TorreyPines stockholders vote FOR TorreyPines Proposal No. 2 to approve the amendment to TorreyPines certificate of incorporation effecting the reverse stock split, as described in this joint proxy statement/prospectus.

The TorreyPines board of directors has determined and believes that the amendment of TorreyPines certificate of incorporation to change the name of TorreyPines to Raptor Pharmaceutical Corp. is advisable to, and in the best interests of, TorreyPines and its stockholders and has approved such name change. The TorreyPines board of directors unanimously recommends that TorreyPines stockholders vote FOR TorreyPines Proposal No. 3 to approve the name change.

The TorreyPines board of directors unanimously recommends a vote FOR each named nominee in Proposal No. 4.

The TorreyPines board of directors has determined and believes that adjourning the TorreyPines annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of TorreyPines Proposal Nos. 1, 2 and 3 is advisable to, and in the best interests of, TorreyPines and its stockholders and has approved and adopted the proposal. The TorreyPines board of directors unanimously recommends that TorreyPines stockholders vote FOR TorreyPines Proposal No. 5 to adjourn the TorreyPines annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of TorreyPines Proposal Nos. 1, 2 and 3.

Record Date; Shares of Common Stock Outstanding and Entitled to Vote

TorreyPines has fixed the close of business on August 27, 2009 as the record date for determination of the holders of TorreyPines common stock entitled to notice of and to attend and vote at the TorreyPines annual meeting or any adjournment or postponement thereof. There were approximately 330 holders of record of TorreyPines common stock at the close of business on the record date. At the close of business on the record date, 15,999,058 shares of TorreyPines common stock were issued and outstanding. Each share of TorreyPines common stock entitles the holder thereof to one vote at the TorreyPines annual meeting on all matters properly presented at the TorreyPines annual meeting. See the section titled, Principal Stockholders of TorreyPines in this joint proxy statement/prospectus for information regarding persons known to the management of TorreyPines to be the beneficial owners of more than 5% of the outstanding shares of TorreyPines common stock.

Voting and Revocation of Proxies

The proxy accompanying this joint proxy statement/prospectus is solicited on behalf of the board of directors of TorreyPines for use at the TorreyPines annual meeting.

If you are a stockholder of record of TorreyPines as of the record date referred to above, you may vote in person at the TorreyPines annual meeting or vote by proxy using the enclosed proxy card. Whether or not you plan to attend the TorreyPines annual meeting, TorreyPines urges you to vote by proxy to ensure your vote is counted. You may still attend the TorreyPines annual meeting and vote in person if you have already voted by proxy.

To vote in person, come to the TorreyPines annual meeting and TorreyPines will give you a ballot when you arrive.

To vote using the proxy card, simply mark, sign and date your proxy card and return it promptly in the postage-paid envelope provided. If you return your signed proxy card to TorreyPines before the TorreyPines annual meeting, TorreyPines will vote your shares as you direct.

To vote over the telephone, dial the toll-free number on your proxy card or voting instruction form using a touch-tone phone and follow the recorded instructions. You will be asked to provide the company number and control number from the enclosed proxy card. Your vote must be received by 11:59 p.m., Eastern Time on September 27, 2009 to be counted.

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To vote on the Internet, go to the website on the proxy card or voting instruction form to complete an electronic proxy card. You will be asked to provide the company number and control number from the enclosed proxy card. Your vote must be received by 11:59 p.m., Eastern Time on September 27, 2009 to be counted.

If your TorreyPines shares are held by your broker as your nominee (that is, in street name), you will need to obtain a proxy card from the institution that holds your shares and follow the instructions included on that proxy card regarding how to instruct your broker to vote your TorreyPines shares. If you do not give instructions to your broker, your broker can vote your TorreyPines shares with respect to discretionary items but not with respect to non-discretionary items. On non-discretionary items for which you do not give your broker instructions, the TorreyPines shares will be treated as broker non-votes.

All properly executed proxies that are not revoked will be voted at the TorreyPines annual meeting and at any adjournments or postponements of the TorreyPines annual meeting in accordance with the instructions contained in the proxy. If a holder of TorreyPines common stock executes and returns a proxy and does not specify otherwise, the shares represented by that proxy will be voted **FOR** TorreyPines Proposal No. 1 to approve the issuance of shares of TorreyPines common stock in the merger, and for the resulting change in control; **FOR** TorreyPines Proposal No. 2 to approve an amendment to TorreyPines certificate of incorporation effecting the reverse stock split described in this joint proxy statement/prospectus; **FOR** TorreyPines Proposal No. 3 to approve an amendment to TorreyPines certificate of incorporation to change the name of TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. ; **FOR** TorreyPines Proposal No. 4 for the election of each named nominee to TorreyPines board of directors; and **FOR** TorreyPines Proposal No. 5 to adjourn the TorreyPines annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of TorreyPines Proposal Nos. 1, 2 and 3 in accordance with the recommendation of the TorreyPines board of directors.

TorreyPines stockholders of record, other than those TorreyPines stockholders who have executed voting agreements, may change their vote at any time before their proxy is voted at the TorreyPines annual meeting in one of three ways. First, a stockholder of record of TorreyPines can send a written notice to the Secretary of TorreyPines stating that the stockholder would like to revoke its proxy. Second, a stockholder of record of TorreyPines can submit new proxy instructions either on a new proxy card, by telephone or via the Internet. Third, a stockholder of record of TorreyPines can attend the TorreyPines annual meeting and vote in person. Attendance alone will not revoke a proxy. If a stockholder of record of TorreyPines has instructed a broker to vote its shares of TorreyPines common stock, the stockholder must follow directions received from its broker to change those instructions.

Quorum and Vote of TorreyPines Stockholders Required

A quorum of stockholders is necessary to hold a valid meeting. The presence, in person or represented by proxy, at the TorreyPines annual meeting of the holders of a majority of the shares of TorreyPines common stock issued and outstanding and entitled to vote at the TorreyPines annual meeting is necessary to constitute a quorum at the meeting. If a quorum is not present at the TorreyPines annual meeting, TorreyPines expects that the meeting will be adjourned or postponed to solicit additional proxies.

Abstentions and broker non-votes will be counted towards a quorum. Approval of each of TorreyPines Proposal Nos. 1 and 5 requires the affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting. Approval of each of TorreyPines Proposal Nos. 2 and 3 requires the affirmative vote of the holders of a majority of the TorreyPines common stock having voting power outstanding on the record date for the TorreyPines annual meeting. For the election of directors (TorreyPines Proposal No. 4), the four nominees receiving the most **FOR** votes from the shares having voting power present in person or represented by proxy will be elected.

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Votes will be counted by the inspector of election appointed for the meeting, who will separately count **FOR**, with respect to proposals other than TorreyPines Proposal No. 4, and **AGAINST** votes, abstentions and broker non-votes. Abstentions will be counted towards the vote total for each proposal (other than the election of directors) and will have the same effect as **AGAINST** votes. Broker non-votes will have the same effect as **AGAINST** votes for Proposal Nos. 2 and 3. For TorreyPines Proposal Nos. 1 and 5, broker non-votes will have no effect and will not be counted towards the vote total.

If you do not submit a proxy card or vote at the TorreyPines annual meeting, your shares of TorreyPines common stock will not be counted as present for the purpose of determining a quorum and will have the same effect as votes against the amendment to TorreyPines certificate of incorporation effecting the reverse stock split and the amendment to TorreyPines certificate of incorporation to change the name of TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp., but will not affect the outcome of the election of directors and will not be counted for any purpose in determining whether to approve the issuance of shares of TorreyPines common stock in the merger, and for the resulting change in control or whether to adjourn the TorreyPines annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of TorreyPines Proposal Nos. 1, 2 and 3 in accordance with the recommendation of the TorreyPines board of directors.

At the record date for the TorreyPines annual meeting, the directors and executive officers of TorreyPines owned approximately 1% of the outstanding shares of TorreyPines common stock entitled to vote at the TorreyPines annual meeting. TorreyPines stockholders owning approximately 151,040 shares of TorreyPines common stock, representing approximately 1% of the outstanding shares of TorreyPines common stock as of the record date, are subject to voting agreements. Each stockholder that entered into a voting agreement has agreed to vote all shares of TorreyPines common stock owned by him or her in favor of the approval of the issuance of the shares of TorreyPines common stock pursuant to the merger, the amendment to TorreyPines certificate of incorporation effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. and any action in furtherance of the foregoing, and against any matter that would result in a breach of the merger agreement by TorreyPines and any other action which is intended to, or could reasonably be expected to, impede, interfere with, delay, postpone, discourage or adversely affect the merger or any of the transactions contemplated by the merger agreement. All of these stockholders are officers and directors of TorreyPines. Please see the section titled, **Agreements Related to the Merger Voting Agreements** in this joint proxy statement/prospectus.

Solicitation of Proxies

In addition to solicitation by mail, the directors, officers, employees and agents of TorreyPines may solicit proxies from TorreyPines stockholders by personal interview, telephone, telegram or otherwise. TorreyPines and Raptor will pay the costs of the solicitation of their respective proxies. Raptor has agreed to pay all fees and expenses, other than fees and expenses of attorneys, accountants and financial advisors, incurred in connection with the filing with the SEC, printing and mailing of this joint proxy statement/prospectus (and the registration statement of which it is a part) and any amendments or supplements thereto. Arrangements will also be made with brokerage firms and other custodians, nominees and fiduciaries who are record holders of TorreyPines common stock for the forwarding of solicitation materials to the beneficial owners of TorreyPines common stock. TorreyPines and Raptor will pay the cost of reimbursing their respective applicable brokers, custodians, nominees and fiduciaries for the reasonable out-of-pocket expenses they incur in connection with the forwarding of solicitation materials.

Other Matters

As of the date of this joint proxy statement/prospectus, the TorreyPines board of directors does not know of any business to be presented at the TorreyPines annual meeting other than as set forth in the notice accompanying this joint proxy statement/prospectus. If any other matters should properly come before the TorreyPines annual meeting, it is intended that the shares represented by proxies will be voted with respect to such matters in accordance with the judgment of the persons voting the proxies.

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THE ANNUAL MEETING OF RAPTOR STOCKHOLDERS

General

Raptor is furnishing this joint proxy statement/prospectus to holders of Raptor common stock in connection with the solicitation of proxies by the Raptor board of directors for use at the Raptor annual meeting to be held on September 28, 2009 and at any adjournment or postponement thereof. This joint proxy statement/prospectus is first being furnished to stockholders of Raptor on or about September 1, 2009.

Date, Time and Place

The annual meeting of Raptor stockholders will be held on September 28, 2009 at 10:00 a.m., local time, at Raptor's corporate offices at 9 Commercial Blvd., Suite 200, Novato, CA 94949.

Purposes of the Raptor Annual Meeting

The purposes of the Raptor annual meeting are:

1. To consider and vote upon a proposal to adopt the merger agreement.
2. To elect four directors named herein to serve until the next annual meeting of stockholders or until their respective successors are duly elected and qualified.
3. To ratify Raptor's Audit Committee's appointment of Burr, Pilger & Mayer, LLP as Raptor's independent registered public accounting firm for the fiscal year ending August 31, 2009.
4. To consider and vote on adjournment of the Raptor annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of the merger agreement.
5. To transact such other business as may properly come before the Raptor annual meeting or any adjournment, postponement or continuations of the Raptor annual meeting.

Recommendations of Raptor's Board of Directors

The Raptor board of directors has determined and believes that the merger is advisable and fair to, and in the best interests of, Raptor and its stockholders and has approved the merger and the merger agreement. The Raptor board of directors unanimously recommends that Raptor stockholders vote FOR Raptor Proposal No. 1 to adopt the merger agreement.

The Raptor board of directors unanimously recommends that Raptor stockholders vote FOR Raptor Proposal No. 2 to elect its Board of Directors.

The Raptor board of directors unanimously recommends that Raptor stockholders vote FOR Raptor Proposal No. 3 to ratify the appointment of Burr, Pilger & Mayer, LLP as Raptor's independent registered public accounting firm for the year ending August 31, 2009.

The Raptor board of directors has concluded that the proposal to adjourn the Raptor annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of the merger agreement is advisable to, and in the best interests of, Raptor and its stockholders and has approved and adopted the proposal. Accordingly, the Raptor board of directors unanimously recommends that Raptor stockholders vote FOR Raptor Proposal No. 4 to adjourn the Raptor annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of the merger agreement.

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Record Date; Shares of Common Stock Outstanding and Entitled to Vote

Raptor has fixed the close of business on August 27, 2009 as the record date for determination of the holders of Raptor common stock entitled to notice of and to attend and vote at the Raptor annual meeting or at any adjournment or postponement thereof. There were approximately 49 holders of record of Raptor common stock as of the close of business on the record date. As of the close of business on August 27, 2009, there were 76,601,297 shares of Raptor common stock outstanding and entitled to vote. Each share of Raptor common stock entitles the holder thereof to one vote at the Raptor annual meeting on all matters properly presented at the Raptor annual meeting. See the section titled, "Principal Stockholders of Raptor" in this joint proxy statement/prospectus for information regarding persons known to the management of Raptor to be the beneficial owners of more than 5% of the outstanding shares of Raptor common stock.

Voting and Revocation of Proxies

The proxy accompanying this joint proxy statement/prospectus is solicited on behalf of the board of directors of Raptor for use at the Raptor annual meeting.

If you are a stockholder of record of Raptor as of the record date referred to above, you may vote in person at the Raptor annual meeting or vote by proxy using the enclosed proxy card. Whether or not you plan to attend the Raptor annual meeting, Raptor urges you to vote by proxy to ensure your vote is counted. You may still attend the Raptor annual meeting and vote in person if you have already voted by proxy.

To vote in person, come to the Raptor annual meeting and Raptor will give you a ballot when you arrive.

To vote using the proxy card, simply mark, sign and date your proxy card and return it promptly in the postage-paid envelope provided. If you return your signed proxy card to Raptor before the Raptor annual meeting, Raptor will vote your shares as you direct.

If your Raptor shares are held by your broker as your nominee (that is, in street name), you will need to obtain a proxy card from the institution that holds your shares and follow the instructions included on that proxy card regarding how to instruct your broker to vote your Raptor shares. If you do not give instructions to your broker, your broker can vote your Raptor shares with respect to discretionary items but not with respect to non-discretionary items. On non-discretionary items for which you do not give your broker instructions, the Raptor shares will be treated as broker non-votes.

All properly executed proxies that are not revoked will be voted at the Raptor annual meeting and at any adjournments or postponements of the Raptor annual meeting in accordance with the instructions contained in the proxy. If a holder of Raptor common stock executes and returns a proxy and does not specify otherwise, the shares represented by that proxy will be voted **FOR** Raptor Proposal No. 1 to adopt the merger agreement; **FOR** Raptor Proposal No. 2 for the election of four directors to serve until the next annual meeting of the stockholders or until their respective successors are duly elected and qualified; **FOR** Raptor Proposal No. 3 to ratify the appointment by the audit committee of Raptor's board of directors of Burr, Pilger & Mayer, LLP as Raptor's independent registered public accounting firm for the fiscal year ending August 31, 2009; and **FOR** Raptor Proposal No. 4 to adjourn the Raptor annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of the merger agreement.

Raptor stockholders of record, other than those Raptor stockholders who have executed voting agreements, may change their vote at any time before their proxy is voted at the Raptor annual meeting in one of three ways. First, a stockholder of record of Raptor can send a written notice to the Secretary of Raptor stating that the stockholder would like to revoke its proxy. Second, a stockholder of record of Raptor can submit new proxy instructions on a new proxy card. Third, a stockholder of record of Raptor can attend the Raptor annual meeting and vote in person. Attendance alone will not revoke a proxy. If a stockholder of record of Raptor has instructed a broker to vote its shares of Raptor common stock, the stockholder must follow directions received from its broker to change those instructions.

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Quorum and Vote of Raptor Stockholders Required

A quorum of stockholders is necessary to hold a valid meeting. The presence, in person or by proxy, at the Raptor annual meeting of the holders of a majority of the shares of Raptor common stock issued and outstanding and entitled to vote at the Raptor annual meeting is necessary to constitute a quorum at the Raptor annual meeting. If a quorum is not present at the Raptor annual meeting, Raptor expects that the meeting will be adjourned or postponed to solicit additional proxies.

Abstentions and broker non-votes will be counted towards a quorum. Approval of Raptor Proposal No. 1 requires the affirmative vote of the holders of a majority of the shares of Raptor common stock outstanding on the record date and entitled to vote at the Raptor annual meeting. Approval of each of Raptor Proposal Nos. 3 and 4 requires the affirmative vote of the holders of a majority of the shares of Raptor common stock having voting power present in person or represented by proxy at the Raptor annual meeting. For the election of directors (Raptor Proposal No. 2), the affirmative vote of a plurality of the voting power of the shares present in person or represented by proxy at the Raptor annual meeting is required.

Votes will be counted by the inspector of election appointed for the meeting, who will separately count **FOR**, with respect to proposals other than Raptor Proposal No. 2, and **AGAINST** votes, abstentions and broker non-votes. Abstentions will be counted towards the vote total for each proposal (other than the election of directors) and will have the same effect as **AGAINST** votes. Broker non-votes will have the same effect as **AGAINST** votes for Proposal No. 1. For Raptor Proposal Nos. 3 and 4, broker non-votes will have no effect and will not be counted towards the vote total.

If you do not submit a proxy card or vote at the Raptor annual meeting, your shares of Raptor common stock will not be counted as present for the purpose of determining a quorum and will have the same effect as votes against the adoption of the merger agreement, but will not affect the outcome of the election of directors and will not be counted for any purpose in determining whether to ratify the selection of Burr, Pilger & Mayer, LLP as Raptor's registered public accounting firm for the fiscal year ending August 31, 2009 or whether to adjourn the Raptor annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of the merger agreement.

At the record date for the Raptor annual meeting, the directors and executive officers of Raptor owned approximately 10% of the outstanding shares of Raptor common stock entitled to vote at the Raptor's annual meeting. As of July 27, 2009, stockholders of Raptor that collectively owned 7,412,500 shares of common stock, representing approximately 11% of the outstanding common stock of Raptor, have entered into agreements to vote their shares of common stock in favor of the adoption of the merger agreement and to adjourn the Raptor annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of the merger agreement. All of these stockholders are officers and directors of Raptor. Please see the section titled, "Agreements Related to the Merger Voting Agreements" in this joint proxy statement/prospectus.

Solicitation of Proxies

In addition to solicitation by mail, the directors, officers, employees and agents of Raptor may solicit proxies from Raptor's stockholders by personal interview, telephone, telegram or otherwise. TorreyPines and Raptor will pay the costs of the solicitation of their respective proxies. Raptor has agreed to pay all fees and expenses, other than fees and expenses of attorneys, accountants and financial advisors, incurred in connection with the filing with the SEC, printing and mailing of this joint proxy statement/prospectus (and the registration statement of which it is a part) and any amendments or supplements thereto. Arrangements will also be made with brokerage firms and other custodians, nominees and fiduciaries who are record holders of Raptor common stock for the forwarding of solicitation materials to the beneficial owners of Raptor common stock. TorreyPines and Raptor will pay the cost of reimbursing their respective applicable brokers, custodians, nominees and fiduciaries for the reasonable out-of-pocket expenses they incur in connection with the forwarding of solicitation materials.

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Other Matters

As of the date of this joint proxy statement/prospectus, the Raptor board of directors does not know of any business to be presented at the Raptor annual meeting other than as set forth in the notice accompanying this joint proxy statement/prospectus. If any other matters should properly come before the Raptor annual meeting, it is intended that the shares represented by proxies will be voted with respect to such matters in accordance with the judgment of the persons voting the proxies.

Appraisal Rights

Under the DGCL, holders of Raptor common stock who do not vote in favor of the adoption of the merger agreement will have the ability to seek appraisal of the fair value of their shares as determined by the Delaware Court of Chancery if the merger is completed, but only if they submit a written demand for an appraisal prior to the vote on the adoption of the merger agreement and they comply with the other procedures under the DGCL. For more information, please see "The Merger Appraisal Rights" beginning on page 105 of this joint proxy statement/prospectus.

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THE MERGER

*This section and the section titled, **The Merger Agreement** in this joint proxy statement/prospectus describe the material aspects of the merger, including the merger agreement. While TorreyPines and Raptor believe that this description covers the material terms of the merger and the merger agreement, it may not contain all of the information that is important to you. You should read carefully this entire joint proxy statement/prospectus for a more complete understanding of the merger and the merger agreement, including the merger agreement, attached as Annex A, and the other documents to which you are referred herein. See the section titled, **Where You Can Find More Information** in this joint proxy statement/prospectus.*

Background of the Merger

On September 11, 2008, the board of directors and management of Raptor initiated a process to evaluate the advantages and disadvantages of various strategic options for Raptor that would allow Raptor to recapitalize the company and obtain a listing on a national exchange, including a reverse split or a merger transaction. As part of this process, they conducted a review of potential merger partners that included United States based public companies. In parallel, the board and management of Raptor performed an exploratory assessment of the risks associated with a reverse split.

On December 1, 2008, TorreyPines announced that oral administration of NGX426, its orally delivered clinical stage product candidate in development for the treatment of acute and chronic pain, demonstrated a statistically significant reduction in spontaneous pain, hyperalgesia (abnormally increased pain state) and allodynia (pain resulting from normally non-painful stimuli to the skin) compared to placebo following intradermal injections of capsaicin in a human experimental model of cutaneous pain, hyperalgesia and allodynia. This was the completion of the clinical trial of NGX426 that was initiated in June 2008. On December 2, 2008, TorreyPines announced positive results from its Phase II clinical trial evaluating three single doses of NGX267 as a treatment for xerostomia, or dry mouth, in patients with Sjögren's syndrome that was initiated in May 2008. NGX267 met the primary endpoint of a statistically significant increase in salivary flow production compared to placebo at all three doses: 10 mg, 15 mg, and 20 mg. These doses were safe and well tolerated with few reports of excessive sweating and gastrointestinal complaints.

On December 2, 2008, TorreyPines engaged JMP Securities LLC, or JMP, to evaluate a potential equity financing for TorreyPines to advance these product candidates. From December 2008 through March 2009, JMP contacted 55 potential investors. TorreyPines did not receive a term sheet from the efforts of JMP and the management and directors of TorreyPines.

Additionally, from December 2008 through March 2009, TorreyPines, with assistance from P2 Partners LLC, or P2 Partners, contacted over 80 prospective strategic partners, both domestic and international, to assist in advancing its product candidates. The list of prospects represented companies that were active in the pain, xerostomia or cognitive disorders markets or whom TorreyPines believed could have an interest in one or more of those markets. This resulted in approximately 25 companies signing non-disclosure agreements and receiving non-public evaluation materials. TorreyPines did not receive any expressions of interest as a result of these efforts.

In January 2009, TorreyPines implemented the first in a series of cost savings measures including reduction in office space with accompanying decrease in rent, scaled back use of third party consultants and implementation of a maintenance-only development plan for each of its three product candidates. This plan substantially reduced development expenditures by suspending all new clinical and preclinical projects and using internal resources to finalize all clinical reports from recently completed studies.

On March 2, 2009, as a further cost saving measure, TorreyPines reduced 50% of its remaining employees' work schedules to 20 hours per week. At a March 19, 2009 meeting of TorreyPines' board of directors, management recommended the implementation of additional cost saving measures because TorreyPines had not

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received any meaningful expressions of interest either from potential investors or potential strategic partners. TorreyPines' board of directors after reviewing TorreyPines' financial condition approved additional cost saving measures that included the termination of TorreyPines' engagement with P2 Partners, a reduction of TorreyPines' workforce to three employees (TorreyPines' Chief Executive Officer, Chief Financial Officer, and Vice President and General Counsel) on March 31, 2009 and the repayment of TorreyPines' outstanding debt to Comerica Bank in April 2009. The three remaining TorreyPines employees were tasked with assisting the board of directors in assessing and completing a possible strategic transaction. Additionally, TorreyPines' board of directors established a Strategic Transactions Committee consisting of two independent directors, Drs. Peter Davis and Steven H. Ferris to evaluate potential strategic options for TorreyPines, including, but not limited to, a sale, financing or orderly liquidation and dissolution of TorreyPines. TorreyPines' board of directors also reviewed the timing and procedures associated with an orderly dissolution and liquidation of TorreyPines and the amount of funding projected to be available to continue pursuing a strategic transaction in order to maximize returns to TorreyPines' stockholders.

On April 1, 2009, Raptor learned that TorreyPines had initiated a reduction in staff and was considering strategic alternatives for TorreyPines, including a possible sale of the company as described in TorreyPines' March 31, 2009 press release. Through Raptor's financial advisor, Beal Advisors, Raptor learned that TorreyPines was considering all potential structures for a strategic transaction, including an asset sale or reverse merger, as well as potential licensing or partnering arrangements related to its product candidates.

On April 3, 2009, Raptor's financial advisor had a conversation with Mr. Craig Johnson, Chief Financial Officer of TorreyPines, to discuss Raptor's interest in the company. Based on this preliminary discussion, the parties were sufficiently interested in discussing a merger, and as a result, Raptor and TorreyPines entered into a confidentiality agreement. The parties subsequently exchanged confidential management presentations. Based on continuing conversations between the parties, Raptor began to evaluate a merger with TorreyPines as a public shell.

On April 6, 2009, Raptor notified TorreyPines that Raptor would be postponing any further discussions with TorreyPines as Raptor was considering other acquisition opportunities. From April 7 to May 20, 2009, through its financial advisor, Raptor continued to provide to TorreyPines, and received from TorreyPines, periodic updates on their respective strategic transaction evaluation processes, while Raptor considered two other acquisition opportunities.

At a meeting of TorreyPines' board of directors on April 14, 2009, the board of directors approved terminating the services of JMP and retaining the services of Merriman Curhan Ford, or Merriman, as TorreyPines' financial advisor to assist in the evaluation of strategic options, including the possible sale of TorreyPines or its assets. From April 15, 2009 through May 19, 2009 Merriman and TorreyPines contacted more than 85 prospective strategic partners, more than half of whom had previously been contacted by TorreyPines or its previous advisors. These efforts resulted in 5 additional companies signing non-disclosure agreements and receiving non-public evaluation materials. As of May 19, 2009, TorreyPines had not received any written expression of interest with respect to a strategic transaction.

On May 19, 2009, TorreyPines' board of directors held a meeting for the purpose of considering a Plan of Liquidation and Dissolution, or Plan of Dissolution, and the other alternatives available to TorreyPines and the board of directors received information concerning TorreyPines' cash position and financial forecast. Also present at this meeting was a representative from Cooley Godward Kronish LLP, TorreyPines' outside legal counsel, who presented a summary of the terms of the proposed plan of dissolution and discussed TorreyPines' board of directors' fiduciary duties. TorreyPines' management presented its analysis of the alternatives available to TorreyPines and its assessment that it would be unlikely given TorreyPines' then-current cash position that any assets would be available for distribution to the stockholders pursuant to the Plan of Dissolution. After lengthy discussions and consideration of TorreyPines' financial position and the status of the partnering/licensing and strategic alternatives process, TorreyPines' board of directors, upon recommendation of TorreyPines

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Strategic Transaction Committee, adopted the Plan of Dissolution and approved TorreyPines' dissolution, subject to stockholder approval. TorreyPines' board of directors concluded that after consideration of the financing and strategic alternatives available to the company, the Plan of Dissolution and TorreyPines' liquidation and dissolution were advisable and in the best interests of TorreyPines and its stockholders. TorreyPines continued to seek a potential acquirer of its assets or TorreyPines as a whole as it proceeded with the dissolution process.

By May 20, 2009, Raptor's evaluation process of the two other acquisition opportunities it had been considering had ended and Raptor notified TorreyPines of this development.

On May 22, 2009, Raptor submitted to TorreyPines' management a written, non-binding preliminary term sheet that proposed a merger between Raptor and TorreyPines that evaluated TorreyPines as a public shell with no assets. Raptor received additional confidential information regarding TorreyPines' pharmaceutical product portfolio.

On May 27, 2009, Dr. Starr, Raptor's CEO, instructed Raptor's financial advisor to rescind the May 22 term sheet, and the financial advisor did so. TorreyPines was also informed that while Raptor remained interested in a possible merger transaction, any future discussions regarding a potential transaction would have to be more strategic in nature and would have to include the pharmaceutical assets of TorreyPines, specifically NGX426. TorreyPines subsequently submitted a development plan and proposed development budget for NGX426 to Raptor.

On June 1, 2009, the management teams of Raptor and TorreyPines had a conference call to introduce their respective management teams and discuss the development plans for NGX426.

On June 1, 2009, TorreyPines entered in a confidentiality agreement with Company A, which was interested in a possible merger with TorreyPines.

On June 4, 2009, the Raptor management team met with a third party investor, interested in potentially funding the further development of NGX426, to introduce the management team of Raptor and discuss Raptor's product portfolio and corporate development goals. The contemplated transaction with TorreyPines and the development plans for NGX426 were also discussed.

On June 5, 2009, Mr. Johnson, following conversations with the third party investor, communicated to Raptor's financial advisor that the initial feedback from the third party was that such party was generally not interested in further involvement in the potential transaction, but more specific feedback would be provided by the third party.

On June 11, 2009, Mr. Johnson provided additional feedback to Raptor's financial advisor that there was little to no interest from this third party at this time to act as an investor in the merger transaction between Raptor and TorreyPines. TorreyPines and Raptor agreed that there did not seem to be a path forward, but TorreyPines and Raptor agreed to update each other with any new information.

On June 15, 2009, following a meeting between members of TorreyPines' management team and members of Company A's management team, TorreyPines received a non-binding term sheet from Company A regarding a possible merger with TorreyPines. The proposed merger transaction would have involved a multi-step process that would result in TorreyPines stockholders holding, at most, 20% of the combined company following the transaction, although the percentage could decrease substantially between signing a definitive agreement and the proposed completion of the final step in the proposed merger process approximately one year later. The proposed transaction was contingent upon TorreyPines having \$400,000 at the closing of the transaction and had a high degree of execution risk of completion because of the multi-step process and a requirement that TorreyPines regain compliance with the NASDAQ Global Market continued listing requirements prior to consummation of the transaction.

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On June 19, 2009 TorreyPines filed its definitive proxy for its special meeting of stockholders to approve the Plan of Dissolution of TorreyPines. The definitive proxy highlighted the on-going efforts of TorreyPines to complete an asset sale or sale of TorreyPines and noted that TorreyPines requested additional term sheets prior to June 30, 2009.

On June 23, 2009, Raptor's financial advisor called Mr. Johnson and provided an update on Raptor's internal discussions regarding pursuing a potential transaction with TorreyPines. Raptor's financial advisor and Mr. Johnson discussed potential deal structures under which a merger between Raptor and TorreyPines might be pursued on terms acceptable to both parties.

On June 24, 2009, Raptor discussed with its financial advisor its options with regard to a merger with TorreyPines. Raptor concluded that there remained sufficient interest in TorreyPines absent a third party investment in TorreyPines' product candidates, tezampanel and NGX426.

On June 26, 2009, Raptor's financial advisor communicated to Mr. Johnson that Raptor remained interested in acquiring TorreyPines, including its existing product candidates, and proposed submitting another written non-binding preliminary term sheet to that effect. Mr. Johnson communicated to Raptor's financial advisor that TorreyPines would be willing to consider an offer.

On June 29, 2009, Raptor submitted a revised, written non-binding preliminary term sheet to TorreyPines that proposed a merger between the two companies. Such term sheet included the acquisition of TorreyPines as a whole, including its pharmaceutical assets, specifically NGX426, as well as retention of TorreyPines' existing employees for a specified period after the completion of the merger.

On June 29 and 30, 2009, TorreyPines received one additional non-binding term sheet from Company B relating to a merger with TorreyPines and two non-binding term sheets related to the sale of TorreyPines' assets, NGX426 and tezampanel from Company C and Company D, respectively. Following a review of these three additional proposals by the TorreyPines board of directors and discussions between members of the TorreyPines board of directors and management regarding the terms of the offers and the other strategic alternatives available to TorreyPines, TorreyPines' management informed each of the parties interested in acquiring NGX426 and tezampanel, Company C and Company D, that each of their respective non-binding offers for TorreyPines' assets needed to be substantially improved in order to be considered a reasonable alternative by TorreyPines' board of directors to the offer received from either Company B or Raptor. Neither Company C nor Company D submitted a revised term sheet, and discussions with Company C and Company D thereafter ceased.

From June 29 to July 12, 2009, TorreyPines continued negotiations with Company B's financial advisor regarding the proposed term sheet. The term sheet initially proposed by Company B provided TorreyPines' stockholders with approximately 1-2% of the combined company post-closing and satisfied TorreyPines' creditors in full.

From June 29, 2009 to July 13, 2009, Raptor and TorreyPines, together with their respective legal counsel and financial advisors, continued their mutual due diligence and engaged in discussions regarding the proposed terms of the merger, including among other things the general structure of the merger, the relative ownership of the stockholders of TorreyPines and Raptor following the merger, the listing requirements of the combined company following the merger, and the retention and proposed activities of the existing management team at TorreyPines following the merger.

On July 9, 2009, TorreyPines announced the adjournment until July 16, 2009 of its special meeting of stockholders to approve the Plan of Dissolution of TorreyPines.

On July 13, 2009, Company B's financial advisor contacted TorreyPines' management to indicate that the board of directors of Company B decided to withdraw their offer for TorreyPines.

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On July 14, 2009, the board of directors, management of, and legal counsel and financial advisor to Raptor met by conference call to discuss the proposed terms of the merger with TorreyPines. The Raptor board of directors discussed the proposed timeline for completing the merger with TorreyPines and proposed deal terms including among other things the general structure of the merger, the relative ownership of the stockholders of TorreyPines and Raptor following the merger, a range for the exchange ratio in the merger and potential adjustments to such exchange ratio and the retention and activities of TorreyPines management team following the merger. Following the discussion, the board of directors of Raptor unanimously approved the management of Raptor and its outside legal counsel to continue due diligence of TorreyPines and its subsidiaries and their operations, properties and assets, continue discussions related to a potential merger with TorreyPines and negotiate deal terms and definitive documentation related thereto, subject to approval of the final deal terms and definitive documentation by Raptor's board of directors.

From July 14 to July 23, 2009, TorreyPines and Raptor, together with their respective legal counsel and financial advisors, continued their mutual due diligence and engaged in negotiations regarding the merger agreement and voting agreements, including potential adjustments to the exchange ratio in the merger, Net Cash requirements of TorreyPines, the requirement that TorreyPines file a listing application as part of the merger and obtain conditional approval for listing of the combined company on the NASDAQ Capital Market, the requirement that TorreyPines effect a reverse stock split in connection with the merger, the terms of retaining the existing management team of TorreyPines following the merger and their specific activities and obligations, termination rights and representations and warranties and covenants of the parties. Final agreement on these and other issues was reached over the course of numerous discussions involving members of TorreyPines and Raptor's respective management, financial advisors and legal counsel.

On July 16, 2009, TorreyPines announced the adjournment until July 30, 2009 of its special meeting of stockholders to approve the Plan of Dissolution of TorreyPines.

On July 20, 2009, the TorreyPines board of directors held a meeting to evaluate the terms of the draft agreement with Raptor and progress toward a final agreement with Raptor. Based on the terms and the likelihood of signing the draft agreement with Raptor, TorreyPines informed Company A that TorreyPines would not be moving forward with Company A.

On July 23, 2009, the final merger documentation was distributed for review to the boards of directors of TorreyPines and Raptor.

On July 24, 2009, the board of directors of Raptor held a meeting to discuss the proposed merger with TorreyPines. Following a discussion of the final terms, a review of the merger documentation, including a discussion of the proposed exchange ratio and listing of the combined company following the merger, the board of directors of Raptor unanimously approved the merger, the merger agreement, the voting agreements and the transactions contemplated by the merger agreement and recommended the adoption of the merger agreement by the stockholders of Raptor.

On July 24, 2009, the board of directors of TorreyPines held a meeting to discuss the proposed merger with Raptor. Following a discussion of all the strategic alternatives available to TorreyPines, including continuing to pursue the dissolution of the company or a possible bankruptcy, pursuing the offers received for tezampand and NGX426, and after a review of the final terms of the draft merger agreement with Raptor and the related ancillary documents, including a discussion of the proposed exchange ratio and a valuation comparison to the other potential offers presented to TorreyPines, the board of directors of TorreyPines determined that the Raptor merger was the best strategic alternative available to TorreyPines and its stockholders, and unanimously approved the merger, the merger agreement, the voting agreements and the transactions contemplated by the merger agreement and recommended the issuance of the shares to Raptor stockholders, the amendment of TorreyPines certificate of incorporation for the reverse stock split and to change the name of TorreyPines following the merger and the nomination of the Raptor directors to the TorreyPines board of directors following

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the merger, all as set forth in the merger agreement, for approval by the stockholders of TorreyPines. The board of directors of TorreyPines also approved the cancellation of the adjourned stockholders' meeting related to TorreyPines' proposed Plan of Dissolution as required by Raptor as a condition to signing the merger agreement.

On July 27, 2009, a definitive merger agreement was signed between Raptor, TorreyPines and merger sub. In addition, certain directors and officers of Raptor executed voting agreements with TorreyPines and certain directors and officers of TorreyPines executed voting agreements with Raptor. Prior to the opening of trading markets on July 28, 2009, the parties issued a joint press release announcing the execution of the merger agreement.

On July 30, 2009, TorreyPines announced the cancellation of its special meeting of stockholders to approve the Plan of Dissolution of TorreyPines.

Reasons for the Merger

The following discussion of the parties' reasons for the merger contains a number of forward-looking statements that reflect the current views of Raptor and/or TorreyPines with respect to future events that may have an effect on their future financial performance. Forward-looking statements are subject to risks and uncertainties. Actual results and outcomes may differ materially from the results and outcomes discussed in the forward-looking statements. Cautionary statements that identify important factors that could cause or contribute to differences in results and outcomes include those discussed in the sections titled, "Risk Factors" and "Forward Looking Statements" in this joint proxy statement/prospectus.

Mutual Reasons for the Merger

TorreyPines and Raptor believe that the merger will result in a biopharmaceutical company with the following potential advantages:

Pipeline. The combined company will have an expanded product candidate pipeline that is more diversified, and targets unmet and underserved markets. The pipeline will consist of six clinical programs either in, or ready to begin, Phase II or Phase III clinical trials as well as three preclinical programs, one of which is partnered with a large pharmaceutical company.

Markets. The combined company can better manage clinical development risk by having development capabilities across a wider spectrum of diseases and markets. Raptor's orphan product strategy of applying reformulated versions of already approved compounds to new disease indications may provide a balance to the development risks of TorreyPines' novel compounds for the potential treatment of pain. The orphan and non-orphan markets that may be addressed by the clinical and preclinical stage programs of the combined company represent well documented underserved or unmet medical needs.

Capital Structure. The combined company provides the opportunity to combine and reorganize both TorreyPines' and Raptor's capital structure and the contemplated listing on the NASDAQ Capital Market may provide the combined company with access to a more liquid market for the combined company's common stock.

Management Team. The combined company will be led by an experienced senior management team from Raptor who has significant experience in the development, registration, and commercialization of product candidates and a board of directors with representation from Raptor. The existing senior management team from TorreyPines will remain with a wholly-owned subsidiary of the combined company for a transition period and will focus on advancing TorreyPines' product candidates for the treatment of moderate to severe pain.

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TorreyPines Reasons for the Merger

The TorreyPines board of directors approved the merger based on a number of factors, including the following:

Strategic Alternatives. The consideration of TorreyPines efforts to pursue strategic alternatives to the merger, including engaging in a merger transaction with another company, an asset sale or licensing/partnering transaction for TorreyPines pain program or undertaking a bankruptcy or liquidation of TorreyPines; and

Stockholder Opportunity. The opportunity for TorreyPines stockholders to participate in the short and long-term value of Raptor's preclinical and clinical development programs as a result of the merger.

In addition to considering the strategic factors outlined above, the TorreyPines board of directors considered the following factors in reaching its conclusion to approve the merger and to recommend that the TorreyPines stockholders approve the issuance of shares of TorreyPines common stock in the merger and the resulting change of control of TorreyPines, all of which it viewed as supporting its decision to approve the business combination with Raptor:

the results of the due diligence review of Raptor's business and operations by TorreyPines management and financial advisors which review supported TorreyPines belief that the addition of the Raptor programs would broaden the combined company's pipeline;

the aggregate value to be received by TorreyPines stockholders in the merger;

the terms and conditions of the merger agreement, including the following related factors:

the determination that the relative percentage ownership of TorreyPines stockholders and Raptor stockholders is consistent with market practice for a merger of this type and captures the respective ownership interests of the TorreyPines and Raptor stockholders in the combined company based on TorreyPines perceived valuations of each company at the time of the TorreyPines board of directors approval of the merger agreement;

the expectation that the merger will be treated as a reorganization for United States federal income tax purposes, with the result that in the merger TorreyPines stockholders will generally not recognize taxable gain or loss for United States federal income tax purposes;

the nature of the conditions to Raptor's obligation to consummate the merger and the perceived risk of non-satisfaction of such conditions;

the limited number and nature of the conditions to Raptor's obligation to consummate the merger;

TorreyPines rights under the merger agreement to consider certain unsolicited acquisition proposals under certain circumstances should TorreyPines receive a superior proposal;

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the no solicitation provisions governing Raptor's ability to engage in negotiations with, provide any confidential information or data to, and otherwise have discussions with, any person relating to an alternative acquisition proposal;

the belief that the terms of the merger agreement, including the parties' representations, warranties and covenants, and the conditions to their respective obligations, are reasonable under the circumstances; and

the voting agreements entered into by officers and directors of Raptor representing approximately 11% of the outstanding capital stock as of July 27, 2009, pursuant to which those officers and directors agreed, solely in their capacity as stockholders, to vote all of their shares of Raptor capital stock in favor of adoption of the merger agreement;

the likelihood of retaining key Raptor employees to help manage the combined company;

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the likelihood that the merger will be consummated on a timely basis, including the likelihood that the merger will receive all necessary regulatory approvals;

the opportunity for TorreyPines stockholders to potentially participate in the short and long-term value of Raptor's product candidate development programs as a result of the merger;

the belief that the combination with Raptor would result in a combined company with the potential for future growth and value as compared to TorreyPines;

the possibility that the combined entity would be able to take advantage of the potential benefits resulting from Raptor's experienced management team;

the reimbursement of up to \$250,000 for incurred expenses payable by Raptor and the circumstances under which it is payable are typical for transactions of this size and type; and

its understanding of Raptor's business including its product candidates, Raptor's experienced management team, and the prospects for value creation for TorreyPines stockholders in connection with the merger.

In the course of its deliberations, TorreyPines board of directors also considered a variety of risks and other countervailing factors related to entering into the merger agreement, including:

the possibility that the merger might not be completed and the potential adverse effect of the public announcement of the merger on the reputation of TorreyPines and TorreyPines' ability to obtain financing in the future in the event the merger is not completed;

the risk that TorreyPines may be delisted from the NASDAQ Global Market, may not be able to qualify the shares to be issued in the merger for listing on the NASDAQ Capital Market, or that The NASDAQ Stock Market LLC may reject the initial listing application that TorreyPines will be required to file in connection with the merger;

the risk that Raptor may terminate the merger agreement if TorreyPines' Net Cash balance at closing is not greater than zero dollars;

the risk that Raptor may terminate the merger agreement;

the requirement under the terms of the merger agreement that TorreyPines reimburse Raptor up to \$250,000 of incurred expenses under certain circumstances, and that TorreyPines' obligation to pay the expense reimbursement may deter third parties from proposing or pursuing alternative business combinations that might result in greater value to TorreyPines stockholders than the merger;

the immediate and substantial dilution of equity interest and voting power of TorreyPines stockholders upon completion of the merger;

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the restrictions on the conduct of TorreyPines' business prior to the consummation of the merger, which, subject to specific limitations, may delay or prevent it from taking certain actions during the time that the merger agreement remains in effect;

the risks, challenges and costs inherent in combining the operations of the two companies and the substantial expenses to be incurred in connection with the merger, including the possibility that delays or difficulties in completing the integration could adversely affect the combined company's operating results and preclude the achievement of some of the benefits anticipated from the merger;

the possible volatility, at least in the short term, of the trading price of TorreyPines' common stock resulting from the merger announcement;

the risk of diverting management's attention from other strategic priorities to implement merger integration efforts;

the risk that the merger might not be consummated in a timely manner or at all;

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the risk to TorreyPines' business, operations and financial results in the event that the merger is not consummated;

the strategic direction of the combined company's board of directors;

the interest of TorreyPines' directors and officers may be different in certain respects from the interests of TorreyPines' stockholders; and

various other risks associated with the combined company and the merger, including the risks associated with obtaining a positive Raptor stockholder vote and those described in the section titled, "Risk Factors" in this joint proxy statement/prospectus.

The foregoing information and factors considered by TorreyPines' board of directors are not intended to be exhaustive but are believed to include all of the material factors considered by TorreyPines' board of directors. In view of the wide variety of factors considered in connection with its evaluation of the merger and the complexity of these matters, TorreyPines' board of directors did not find it useful, and did not attempt, to quantify, rank or otherwise assign relative weights to these factors. In considering the factors described above, individual members of TorreyPines' board of directors may have given different weight to different factors. TorreyPines' board of directors conducted an overall analysis of the factors described above, including thorough discussions with, and questioning of, TorreyPines' management and TorreyPines' legal and financial advisors, and considered the factors overall to be favorable to, and to support, its determination.

TorreyPines' board of directors unanimously determined that the merger agreement and the merger are advisable, fair to and in the best interest of TorreyPines' stockholders and unanimously approved the merger agreement.

The foregoing discussion of TorreyPines' board of directors' considerations concerning the merger is forward looking in nature. This information should be read in light of the discussions under the heading "Forward-Looking Statements."

Raptor's Reasons for the Merger

Raptor's board of directors approved the merger based on a number of factors, including the following:

Expanded Pipeline. The combined company will have an expanded product candidate pipeline that is more diversified, and targets unmet and underserved markets. The pipeline will consist of six clinical programs either in, or ready to begin, Phase II or Phase III clinical trials as well as three preclinical programs, one of which is partnered with a large pharmaceutical company.

Markets. The combined company can better manage clinical development risk by having development capabilities across a wider spectrum of diseases and markets. Raptor's orphan product strategy of applying reformulated versions of already approved compounds to new disease indications may provide a balance to the development risks of TorreyPines' novel compounds for the potential treatment of pain. The orphan and non-orphan markets that may be addressed by the clinical and preclinical stage programs of the combined company represent well documented underserved or unmet medical needs.

Capital Structure. The combined company provides the opportunity to combine and reorganize both TorreyPines' and Raptor's capital structure and the contemplated listing on the NASDAQ Capital Market may provide the combined company with access to a more liquid market for the combined company's common stock.

In addition to considering the strategic factors outlined above, the Raptor board considered the following factors in reaching its conclusion to approve the merger, all of which it viewed as supporting its decision to approve the business combination with TorreyPines:

TorreyPines' attractiveness as a merger partner, including the significant synergy between the product candidate pipelines of Raptor and TorreyPines;

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the results of the due diligence review of TorreyPines' business and operations by Raptor's management, legal advisors and financial advisors which review supported Raptor's belief that the addition of the TorreyPines' product candidates would broaden Raptor's product pipeline;

the aggregate value to be received by Raptor stockholders in the merger;

Raptor's ability to gain a NASDAQ listing and potentially increase its visibility as a nationally listed company;

the terms and conditions of the merger agreement, including the following related factors:

the determination that the relative percentage ownership of TorreyPines stockholders and Raptor stockholders is consistent with market practice for a merger of this type and captures the respective ownership interests of the TorreyPines and Raptor stockholders in the combined company based on Raptor's perceived valuations of each company at the time of the Raptor board of directors' approval of the merger agreement;

the expectation that the merger will be treated as a reorganization for United States federal income tax purposes, with the result that in the merger Raptor stockholders will generally not recognize taxable gain or loss for United States federal income tax purposes;

the nature of the conditions to TorreyPines' obligation to consummate the merger and the limited risk of non-satisfaction of such conditions;

the limited number and nature of Raptor's obligation to consummate the merger;

Raptor's rights under the merger agreement to consider certain unsolicited acquisition proposals under certain circumstances should Raptor receive a superior proposal;

the no solicitation provisions governing TorreyPines' ability to engage in negotiations with, provide any confidential information or data to, and otherwise have discussions with, any person relating to an alternative acquisition proposal;

the belief that the terms of the merger agreement, including the parties' representations, warranties, and covenants, and the conditions to their respective obligations, are reasonable under the circumstances; and

the fact that shares of TorreyPines common stock issued to Raptor stockholders will be registered on Form S-4 and will be freely tradable for Raptor stockholders;

the likelihood of retaining key TorreyPines employees to help manage TPTX, Inc. for a transition period;

the likelihood that the merger will be consummated on a timely basis, including the likelihood that the merger will receive all necessary regulatory approvals;

the opportunity for Raptor's stockholders to participate in the potential long-term value of TorreyPines' product candidate development programs as a result of the merger;

the belief that the combination with TorreyPines would result in a combined company with the potential for enhanced future growth and value as compared to Raptor as an independent, stand-alone company;

the Raptor board of director's consideration of strategic alternatives to the merger, including engaging in a merger transaction with another company or continuing to operate Raptor on a stand-alone basis;

the reimbursement of up to \$250,000 for incurred expenses payable by TorreyPines and the circumstances under which it is payable are typical for transactions of this size and type; and

its understanding of TorreyPines' business including its product candidates, TorreyPines' experienced management team, and the prospects for value creation for Raptor's stockholders in connection with the merger.

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In the course of its deliberations, Raptor's board of directors also considered a variety of risks and other countervailing factors related to entering into the merger agreement, including the following:

the possibility that the merger might not be completed and the potential adverse effect of the public announcement of the merger on the reputation of Raptor and Raptor's ability to obtain financing in the future in the event the merger is not completed;

the risk that TorreyPines may terminate the merger agreement;

the requirement under the terms of the merger agreement that Raptor reimburse TorreyPines up to \$250,000 of incurred expenses under certain circumstances, and that Raptor's obligation to pay the expense reimbursement may deter third parties from proposing or pursuing alternative business combinations that might result in greater value to Raptor stockholders than the merger;

the risk of diverting management's attention from other strategic priorities to implement the merger and integrate each company's operations and infrastructure following the merger;

the risk that the merger might not be consummated in a timely manner or at all;

the risk to Raptor's business, operations and financial results in the event that the merger is not consummated;

the interest of Raptor's directors and officers may be different in certain respects from the interest of Raptor's stockholders;

the risks, challenges and costs of combining each company's operations and the substantial expenses to be incurred in connection with the merger, including the risks that delays or difficulties in completing integration activities and such other expenses, could adversely affect the combined company's operating results and preclude the achievement of some benefits anticipated from the merger; and

various other applicable risks associated with the combined company and the merger, including the risks associated with obtaining a positive TorreyPines stockholder vote and including those described in the section titled, "Risk Factors" in this joint proxy statement/prospectus.

The foregoing information and factors considered by Raptor's board of directors are not intended to be exhaustive but are believed to include all of the material factors considered by Raptor's board of directors. In view of the wide variety of factors considered in connection with its evaluation of the merger and the complexity of these matters, the Raptor board of directors did not find it useful, and did not attempt, to quantify, rank or otherwise assign relative weights to these factors. In considering the factors described above, individual members of the Raptor board of directors may have given different weight to different factors. The Raptor board of directors conducted an overall analysis of the factors described above, including thorough discussions with, and questioning of, Raptor's management and Raptor's legal and financial advisors, and considered the factors overall to be favorable to, and to support, its determination.

Raptor's board of directors unanimously determined that the merger agreement and the merger are advisable, fair to and in the best interest of Raptor's stockholders and unanimously approved the merger agreement.

The foregoing discussion of Raptor's board of directors' considerations concerning the merger is forward looking in nature. This information should be read in light of the discussions under the heading "Forward-Looking Information."

Interests of TorreyPines' Directors and Executive Officers in the Merger

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In considering the recommendation of the TorreyPines board of directors with respect to issuing shares of TorreyPines common stock as contemplated by the merger agreement and the other matters to be acted upon by TorreyPines stockholders at the TorreyPines annual meeting, TorreyPines stockholders should be aware that

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certain members of the board of directors and executive officers of TorreyPines have interests in the merger that may be different from, or in addition to, the interests of TorreyPines stockholders. These interests relate to or arise from, among other things, the fact that TorreyPines executive officers have entered into amended and restated employment agreements with TPTX, Inc., a wholly-owned subsidiary of TorreyPines, which will become effective on the closing of the merger, assuming the TorreyPines stockholders approve the merger. Pursuant to the amended employment agreements each of the current TorreyPines executive officers will be paid by TPTX, Inc. following the merger through February 28, 2010, whether or not they remain employees of TPTX, Inc. following the merger. In addition, these employment agreements provide for bonus payments to each of these executives in the event that TPTX, Inc. is able to secure funding, a partnership, sale or similar transaction related to NGX426, TPTX's pain program product candidate, prior to February 28, 2010, in excess of \$10 million, as described in further detail below under Amended Employment Agreements Following Merger.

Each member of TorreyPines board of directors was aware of these potential conflicts of interest and considered them, among other matters, in reaching their respective decisions to approve the merger agreement and the merger, and to recommend that TorreyPines stockholders approve the Proposal Nos. 1, 2 and 3 in connection with the merger, as described in this joint proxy statement/prospectus.

Ownership Interests

As of August 27, 2009, all directors and executive officers of TorreyPines, together with their affiliates, beneficially owned approximately 8.9% of the shares of TorreyPines common stock. The affirmative vote of the holders of a majority of the TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting is required for approval of TorreyPines Proposal Nos. 1 and 5. The affirmative vote of the holders of a majority of the TorreyPines common stock having voting power outstanding on the record date for the TorreyPines annual meeting is required for approval of TorreyPines Proposal Nos. 2 and 3. For the election of directors (Proposal No. 4), the four nominees receiving the most **FOR** votes from the shares of TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting will be elected.

Employment Agreements Currently in Effect

TorreyPines entered into employment agreements in 2008, as amended in 2009, with Evelyn Graham, its Chief Executive Officer, Craig Johnson, its Chief Financial Officer and Paul Schneider, its Vice President and General Counsel. Under these agreements, as amended, each executive will be entitled to certain severance benefits if his or her respective employment is terminated under either of the following circumstances:

the executive's employment is terminated by TorreyPines without cause (as described below) at any time; or

within the period commencing three (3) months before and ending twelve (12) months following the occurrence of a change of control.

For purposes of these agreements, cause is generally defined to mean: (a) executive's conviction of, or plea of guilty or no contest to, any felony or any crime involving fraud, dishonesty or moral turpitude under the laws of the United States or any state thereof; (b) executive's commission of (or attempted commission of), or participation in, a fraud or act of dishonesty against TorreyPines; (c) executive's material violation of any statutory duty owed to TorreyPines or material violation of any policy or rule of TorreyPines; (d) executive's unauthorized use or disclosure of TorreyPines confidential information or trade secrets; (e) executive's gross misconduct; or (f) executive's conduct that constitutes gross insubordination or habitual neglect of duties that is not cured within the reasonable period provided by the TorreyPines board of directors or a committee designated by the board of directors in its written notice to executive of such conduct.

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For purposes of these employment agreements, "good reason" is generally defined to mean: (a) a material breach of the employment agreement by TorreyPines; (b) a material reduction in the executive's duties, authority or responsibilities relative to the duties, or authority or responsibilities in effect immediately prior to such reduction; (c) a material reduction in the duties, authority or responsibilities of the supervisor to whom the executive is required to report, including a requirement that the executive report to a corporate officer or employee instead of reporting directly to the TorreyPines board of directors; (d) a material reduction in the executive's base salary or target bonus opportunity as in effect immediately prior to such reduction for any reason other than in connection with, and proportionate to, a company-wide pay reduction (provided that the executive's target bonus is part of the executive's base compensation for purposes of Section 409A, as defined below); or (e) an increase in the executive's one-way driving distance from the executive's principal personal residence to the principal office or business location at which the executive is required to perform services of more than 50 miles, except for required travel for TorreyPines' business to an extent substantially consistent with executive's prior business travel obligations.

In the event of an executive's qualifying termination of employment, the executive will be entitled to receive the following:

a continuation of pay of the executive's base salary during the period following the termination or resignation of the executive for a period equal to twelve (12) months, plus the greater of (i) the average of the three annual bonuses paid to the executive by TorreyPines prior to the date of termination or resignation, or (ii) the last annual bonus paid to the executive by TorreyPines prior to the date of termination or resignation;

the right to continue participation for a one-year period in any group health plan sponsored by TorreyPines in which the executive was participating on the date of his or her termination or resignation, at a cost to the executive equal to the amount charged by TorreyPines to its then-current employees; and

the immediate accelerated vesting of the number of shares that would have vested in accordance with the applicable vesting had executive remained employed by TorreyPines for an additional twelve (12) months as of the date of termination.

Set forth below is an estimate of the value of the severance benefits that would become payable to Ms. Graham and Messrs. Johnson and Schneider under the employment agreements, assuming a qualifying termination of each individual's employment and excluding the value of any accelerated vesting of stock options or lapsing of any post-termination stock option exercise restrictions. The amounts shown below are in addition to the values shown in the next table regarding the accelerated vesting of stock options.

| Name and Principal Position | Severance Period | Total Severance Payments | Other Benefits |
|--|------------------|--------------------------|--|
| Evelyn Graham Chief Executive Officer | 12 months | \$ 507,500 | Full acceleration of all outstanding options |
| Craig Johnson Vice President, Finance and Chief Financial Officer | 12 months | \$ 351,200 | Full acceleration of all outstanding options |
| Paul Schneider Vice President and General Counsel | 12 months | \$ 272,125 | Full acceleration of all outstanding options |

Employment Agreements Following Merger

On July 27, 2009, TorreyPines and TPTX, Inc., or TPTX, a wholly-owned subsidiary of TorreyPines, entered into a second amended and restated employment agreement with each of Ms. Graham, Mr. Johnson and Mr. Schneider. The second amended and restated employment agreements amend and restate the previous employment agreement between TorreyPines, TPTX, Inc. and each of Ms. Graham, Mr. Johnson and Mr. Schneider, as applicable, described above. Each second amended and restated employment agreement was

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entered into in connection with the merger with Raptor and will become effective only upon the closing of the merger. Upon effectiveness each second amended and restated employment agreement shall replace and supersede all prior employment agreements between Ms. Graham, Mr. Johnson and Mr. Schneider, respectively, and TPTX, Inc. and/or TorreyPines.

Each second amended and restated agreement, once effective, will remain effective through February 28, 2010 and may be terminated by each of Ms. Graham, Mr. Johnson and Mr. Schneider, as applicable, or TPTX, as the employer, at any time, with or without cause. Each of Ms. Graham's, Mr. Johnson's and Mr. Schneider's second amended and restated employment agreement reflects their respective current annual base salary in effect at the time of the signing of the merger agreement of \$350,000, \$282,000 and \$217,700, respectively. Each of those agreements states that the employee shall not be eligible for any bonus or receive or accrue any vacation.

Pursuant to the terms of each of Ms. Graham's, Mr. Johnson's and Mr. Schneider's second amended and restated employment agreement, in the event that Ms. Graham, Mr. Johnson and Mr. Schneider, as applicable, is terminated for any reason, such individual will be entitled to continue to receive their respective base salary through February 28, 2010.

In addition, if, following the effective time of each such second amended and restated employment agreement and prior to February 28, 2010, TPTX, Inc. (i) sells to a third party buyer any equity securities of TPTX, Inc. and the proceeds from such sale are used primarily for the development NGX426, (ii) completes a change of control transaction or (iii) enters into a partnership, option, or similar arrangement and such sale or equivalent transaction as described in clauses (i), (ii) or (iii) above is approved by the board of directors of TPTX, Inc. and is for aggregate cash consideration (net of all costs and expenses associated with the sale) received by TPTX, Inc. on or before February 28, 2010 of not less than \$10 million, then promptly following the closing of such sale or equivalent transaction, (A) TPTX, Inc. shall pay to each of Ms. Graham, Mr. Johnson and Mr. Schneider, respectively, an amount equal to (a) 3.0% of the aggregate cash consideration (net of all costs and expenses associated with the sale or equivalent transaction) received by TPTX, Inc. in the sale or equivalent transaction multiplied by (b) a percentage equivalent to Ms. Graham's, Mr. Johnson's and Mr. Schneider's respective salary compared to the aggregate salary of these three individuals, payable in cash, and (B) TorreyPines shall pay to each of Ms. Graham, Mr. Johnson and Mr. Schneider an amount equal to (x) 2.0% of the aggregate cash consideration (net of all costs and expenses associated with the sale or equivalent transaction) received by TPTX, Inc. in the sale or equivalent transaction multiplied by (y) each of Ms. Graham's, Mr. Johnson's and Mr. Schneider's respective salary compared to the aggregate salary of these three individuals, payable in the form of TorreyPines common stock.

Stock Options

Each of TorreyPines' executive officers and non-employee directors holds options to purchase shares of TorreyPines common stock. The options were granted under TorreyPines' equity participation plans pursuant to a stock option agreement. Each option grant typically vests in a series of annual installments over a number of years. However, the option agreements provide that each option will vest and become exercisable as to all shares covered by such option upon the consummation of a merger involving TorreyPines, subject to certain exceptions that would not apply to the contemplated merger. As a result, all of the outstanding options held by TorreyPines' executive officers and non-employee directors will immediately vest and become exercisable in full upon consummation of the merger.

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The following table shows the total number of option shares held as of June 30, 2009 by each director and executive officer of TorreyPines. The options have exercise prices ranging between \$0.23 and \$6.37 per share.

| Name | Total Options Held | Vested | Unvested | Weighted Average Exercise Price Per Share |
|----------------------------|--------------------|---------|----------|---|
| Executive Officers: | | | | |
| Evelyn A. Graham | 674,100 | 459,412 | 214,688 | \$ 0.57 |
| Craig A. Johnson | 574,100 | 392,745 | 181,355 | \$ 0.63 |
| Paul R. Schneider | 429,875 | 323,911 | 105,964 | \$ 1.24 |
| Directors: | | | | |
| Peter Davis | 21,624 | 21,624 | 0 | \$ 4.01 |
| Steven Ferris | 45,687 | 45,687 | 0 | \$ 16.79 |
| Steven Ratoff | 56,662 | 56,662 | 0 | \$ 7.33 |

Indemnification of TorreyPines Officers and Directors

The merger agreement provides that, for a period of six years following the effective time of the merger, the combined company will, to the fullest extent permitted by Delaware law, indemnify and hold harmless all present and former directors and officers of TorreyPines against all claims, losses, liabilities, damages, judgments, fines and reasonable fees, costs and expenses, including attorneys' fees and disbursements, incurred in connection with any claim, action, suit, proceeding or investigation, whether civil, criminal, administrative or investigative (other than any such proceeding as set forth under the section titled, "TorreyPines Business Legal Proceedings" in this joint proxy statement/prospectus), arising out of or pertaining to the fact that such person is or was a director or officer of TorreyPines. In addition, for a period of six years following the effective time of the merger, the certificate of incorporation and bylaws of the combined company and surviving company will contain provisions no less favorable with respect to indemnification, advancement of expenses and exculpation of present and former directors and officers of TorreyPines than are presently set forth in the certificate of incorporation and bylaws of TorreyPines.

The merger agreement also provides that, for a period of six years following the consummation of the merger, the combined company will maintain in effect a directors' and officers' liability insurance policy covering the directors and officers of TorreyPines, with coverage in amount and scope of at least \$5 million of coverage containing terms and conditions that are not materially less favorable than TorreyPines' existing policy as of the time the merger becomes effective; *provided, however*, that in no event shall Raptor be required to expend more than an amount equal to \$65,000 for such insurance.

Interests of Raptor's Directors and Executive Officers in the Merger

In considering the recommendation of the Raptor board of directors with respect to adopting the merger agreement, Raptor's stockholders should be aware that certain members of the board of directors and executive officers of Raptor have interests in the merger that may be different from, or in addition to, interests they may have as Raptor's stockholders. Each of TorreyPines' and Raptor's board of directors was aware of these potential conflicts of interest and considered them, among other matters, in reaching their respective decisions to approve the merger agreement and the merger, and, in the case of each board of directors, to recommend that their respective stockholders approve the TorreyPines and Raptor proposals, as applicable, contemplated by this joint proxy statement/prospectus to be presented to their stockholders for consideration at their respective stockholder meetings.

Table of Contents**Ownership Interests**

As of August 27, 2009, all directors and executive officers of Raptor beneficially owned (including through ownership of options and warrants) approximately 13% of the shares of Raptor capital stock. Raptor cannot complete the merger unless the merger agreement is adopted by the affirmative vote of the holders of a majority of the shares of Raptor common stock outstanding on the record date and entitled to vote at the Raptor annual meeting. Certain Raptor officers and directors have also entered into voting agreements in connection with the merger. For a more detailed discussion of the voting agreements see the section titled, *Agreements Related to the Merger Voting Agreements* in this joint proxy statement/prospectus.

TorreyPines Board of Directors After the Merger

The merger agreement provides that, following the merger, the combined company will initially have a four member board of directors, comprised of Christopher M. Starr, Ph.D., Raymond W. Anderson, Erich Sager and Richard L. Franklin, M.D., Ph.D., the current directors of Raptor.

Stock Options

At the effective time of the merger, each outstanding stock option to purchase Raptor common stock not exercised prior to the merger will be assumed by TorreyPines and become exercisable (a) for such number of shares of TorreyPines common stock as is determined by multiplying the number of shares of Raptor common stock subject to the option by the exchange ratio and rounding that result down to the nearest whole number of shares of TorreyPines common stock, and (b) at a per share exercise price as is determined by dividing the existing exercise price of the option by the exchange ratio and rounding that result up to the nearest whole cent, not taking into effect the proposed reverse stock split.

The table below sets forth, as of August 27, 2009, information with respect to options held by each of Raptor's current executive officers and directors.

| Name | Total Options Held | Vested | Unvested | Weighted Average Exercise Price Per Share |
|----------------------------------|-----------------------|-----------|----------|--|
| Executive Officers: | | | | |
| Christopher M. Starr, Ph.D. | 250,000 | 250,000 | 0 | \$ 0.66 |
| Todd C. Zankel, Ph.D. | 250,000 | 250,000 | 0 | \$ 0.66 |
| Thomas E. Daley | 250,000 | 96,873 | 153,127 | \$ 0.49 |
| Kim R. Tsuchimoto, C.P.A. | 327,500 | 290,832 | 36,668 | \$ 0.60 |
| Patrice P. Rioux, M.D., Ph.D. | 150,000 | 0 | 150,000 | \$ 0.20 |
| Directors(1): | | | | |
| Raymond W. Anderson | 600,000 | 554,166 | 45,834 | \$ 0.60 |
| Erich Sager | 1,100,000 | 1,054,166 | 45,834 | \$ 0.60 |
| Richard L. Franklin, M.D., Ph.D. | 150,000 | 40,624 | 109,376 | \$ 0.52 |

(1) Christopher M. Starr, Ph.D., the chief executive officer of Raptor, is also a director of Raptor.

Stock Options and Warrants

Raptor has granted options to purchase shares of its common stock under its 2006 Equity Incentive Plan. Each outstanding option to purchase shares of Raptor common stock that is not exercised prior to the effective time of the merger will be assumed by TorreyPines at the effective time of the merger in accordance with the terms of the 2006 Equity Incentive Plan and the terms of the related stock option agreement and will become an option to purchase shares of TorreyPines common stock. The number of shares of TorreyPines common stock subject to each assumed option will be determined by multiplying the number of shares of Raptor common stock

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that was subject to each option prior to the effective time of the merger by the exchange ratio and rounding that result down to the nearest whole number of shares of TorreyPines common stock. The per share exercise price for the assumed options will be determined by dividing the per share exercise price of the Raptor common stock subject to each option as in effect immediately prior to the effective time of the merger by the exchange ratio and rounding that result up to the nearest whole cent, not taking into effect the proposed reverse stock split.

Raptor has issued warrants to purchase shares of its common stock. Each outstanding warrant to purchase shares of Raptor common stock not terminated or exercised at or prior to the merger will be assumed by TorreyPines at the effective time of the merger in accordance with its terms and will become a warrant to purchase shares of TorreyPines common stock. The number of shares of TorreyPines common stock subject to each assumed warrant will be determined by multiplying the number of shares of Raptor common stock, issuable upon exercise of such warrant, as applicable, that were subject to such warrant prior to the effective time of the merger by the exchange ratio and rounding that result down to the nearest whole number of shares of TorreyPines common stock. The per share exercise price for the assumed warrants will be determined by dividing the per share exercise price of the common stock subject to each warrant as in effect immediately prior to the effective time of the merger by the exchange ratio and rounding that result up to the nearest whole cent, not taking into effect the proposed reverse stock split.

For a more detailed discussion of the exchange ratio and possible adjustments to the exchange ratio to reflect certain events that could occur prior to closing, see the section titled, *The Merger Agreement Merger Consideration and Adjustment* in this joint proxy statement/prospectus. If there is no adjustment to the exchange ratio to reflect certain events that could occur prior to closing, the exchange ratio will be that number of shares of TorreyPines common stock equal to the 303,982,102 shares of TorreyPines common stock to be issued in the merger divided by 69,145,047 shares of Raptor common stock outstanding as of the signing of the merger agreement plus 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options outstanding as of the signing of the merger agreement plus any additional shares of Raptor common stock and securities exercisable for or exchangeable or convertible into Raptor common stock that may be issued following the execution of the merger agreement and prior to the effective time of the merger, subject to adjustment to account for the reverse stock split to be implemented prior to the consummation of the merger.

Form of the Merger

The merger agreement provides that at the effective time, merger sub will be merged with and into Raptor. Upon the consummation of the merger, Raptor will continue as the surviving corporation and will be a wholly-owned subsidiary of TorreyPines.

After completion of the merger, assuming TorreyPines Proposal No. 3 is approved by TorreyPines stockholders at the TorreyPines annual meeting, TorreyPines will be renamed Raptor Pharmaceutical Corp. and expects to trade on the NASDAQ Capital Market under the symbol RPTP.

Merger Consideration and Adjustment

At the effective time of the merger,

each share of Raptor common stock outstanding immediately prior to the effective time of the merger is expected to automatically convert into the right to receive the number of shares of TorreyPines common stock equal to the 303,982,102 shares of TorreyPines common stock to be issued in the merger divided by 69,145,047 shares of Raptor common stock outstanding as of the signing of the merger agreement plus 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options outstanding as of the signing of the merger agreement plus any additional shares of Raptor common stock and securities exercisable for or exchangeable or convertible into Raptor common stock that may be issued following the execution of the merger agreement and prior to the effective time of the merger, subject to adjustment to account for the reverse stock split to be implemented prior to the consummation of the merger, which is referred to as the exchange ratio;

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each option to purchase shares of Raptor common stock outstanding and unexercised immediately prior to the effective time of the merger will be assumed by TorreyPines and will become an option to purchase shares of TorreyPines common stock equal to the product of the number of shares of Raptor common stock subject to the option multiplied by the exchange ratio, rounded down to the nearest whole number of shares of TorreyPines common stock, subject to adjustment to account for the reverse stock split to be implemented prior to the consummation of the merger; and

each warrant to purchase shares of Raptor common stock outstanding and unexercised immediately prior to the effective time of the merger will be assumed by TorreyPines and will become a warrant to purchase shares of TorreyPines common stock equal to the product of the number of shares of Raptor common stock issuable upon exercise of the Raptor warrant multiplied by the exchange ratio, rounded down to the nearest whole number of shares of TorreyPines common stock, subject to adjustment to account for the reverse stock split to be implemented prior to the consummation of the merger.

Immediately after the merger, based on the exchange ratio Raptor stockholders will hold 95% of the outstanding shares of common stock of the combined company with TorreyPines stockholders holding 5% of the outstanding shares of common stock of the combined company, in each case without taking into account any of the other shares of TorreyPines common stock that may be issuable pursuant to outstanding options or warrants to acquire TorreyPines common stock outstanding as of the signing of the merger agreement or any other shares of Raptor common stock that may be issuable pursuant to outstanding options or warrants, other than the 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options included in the calculation of the exchange ratio. Other than the 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options included in the calculation of the exchange ratio, none of the options to purchase shares of Raptor common stock or TorreyPines common stock, respectively, or warrants to purchase shares of Raptor common stock or TorreyPines common stock, respectively, were included in the calculation of the exchange ratio because such options and warrants were out-of-the-money as determined by the boards of directors of TorreyPines and Raptor, respectively, given that the exercise prices of such options and warrants were higher than the trading prices of the common stock for which such options and warrants were exercisable as of July 27, 2009, the date of the merger agreement. Assuming that all of such options and warrants were included in the calculation of the exchange ratio, then, immediately after the merger, based on the exchange ratio as calculated in such manner, Raptor stockholders would hold approximately 94.4% of the outstanding shares of common stock of the combined company on a fully-diluted basis, and TorreyPines stockholders would hold approximately 5.6% of the outstanding shares of common stock of the combined company on a fully-diluted basis.

The merger agreement does not include a price-based termination right, so there will be no adjustment to the total number of shares of TorreyPines common stock that Raptor stockholders will be entitled to receive for changes in the market price of TorreyPines common stock. Accordingly, the market value of the shares of TorreyPines common stock issued pursuant to the merger will depend on the market value of the shares of TorreyPines common stock at the time the merger closes, and could vary significantly from the market value on the date of this joint proxy statement/prospectus.

No fractional shares of TorreyPines common stock will be issuable pursuant to the merger to Raptor stockholders. Instead, each Raptor stockholder who would otherwise be entitled to receive a fraction of a share of TorreyPines common stock, after aggregating all fractional shares of TorreyPines common stock issuable to such stockholder, will be entitled to receive in cash the dollar amount, rounded to the nearest whole cent, without interest, determined by multiplying such fraction by the closing price of a share of TorreyPines common stock as quoted on the NASDAQ Global Market, on the date the merger becomes effective.

The merger agreement provides that, at the effective time of the merger, TorreyPines will deposit with an exchange agent acceptable to TorreyPines and Raptor stock certificates representing the shares of TorreyPines common stock issuable to the Raptor stockholders, and a sufficient amount of cash to make payments in lieu of fractional shares.

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The merger agreement provides that, promptly after the effective time of the merger, the exchange agent will mail to each record holder of Raptor common stock immediately prior to the effective time of the merger a letter of transmittal and instructions for surrendering and exchanging the record holder's Raptor stock certificates for shares of TorreyPines common stock. Upon surrender of a Raptor common stock certificate for exchange to the exchange agent, together with a duly signed letter of transmittal and such other documents as the exchange agent or TorreyPines may reasonably require, the Raptor stock certificate surrendered will be cancelled and the holder of the Raptor stock certificate will be entitled to receive the following:

a certificate representing the number of whole shares of TorreyPines common stock that such holder has the right to receive pursuant to the provisions of the merger agreement;

cash in lieu of any fractional share of TorreyPines common stock; and

dividends or other distributions, if any, declared or made with respect to TorreyPines common stock with a record date after the effective time of the merger.

At the effective time of the merger, all holders of certificates representing shares of Raptor common stock that were outstanding immediately prior to the effective time of the merger will cease to have any rights as stockholders of Raptor. In addition, no transfer of Raptor common stock after the effective time of the merger will be registered on the stock transfer books of Raptor.

If any Raptor stock certificate has been lost, stolen or destroyed, TorreyPines or the exchange agent may, in their discretion, and as a condition to the delivery of any shares of TorreyPines common stock, require the owner of such lost, stolen or destroyed certificate to deliver an affidavit claiming such certificate has been lost, stolen or destroyed and post a bond indemnifying TorreyPines against any claim suffered by TorreyPines related to the lost, stolen or destroyed certificate or any TorreyPines common stock issued in exchange for such certificate as TorreyPines or the exchange agent may reasonably request.

From and after the effective time of the merger, until it is surrendered, each certificate that previously evidenced Raptor common stock will be deemed to represent only the right to receive shares of TorreyPines common stock and cash in lieu of any fractional share of TorreyPines common stock. TorreyPines will not pay dividends or other distributions on any shares of TorreyPines common stock to be issued in exchange for any unsurrendered Raptor stock certificate until the Raptor stock certificate is surrendered as provided in the merger agreement.

Effective Time of the Merger

The merger agreement requires the parties to consummate the merger after all of the conditions to the consummation of the merger contained in the merger agreement are satisfied or waived, including the adoption of the merger agreement by the stockholders of Raptor and the approval by the TorreyPines stockholders of the issuance of TorreyPines common stock and the resulting change in control of TorreyPines, the amendment to TorreyPines' certificate of incorporation effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceuticals Corp. The merger will become effective upon the filing of a certificate of merger with the Secretary of State of the State of Delaware or at such later time as is agreed by TorreyPines and Raptor and specified in the certificate of merger. Neither TorreyPines nor Raptor can predict the exact timing of the consummation of the merger.

Regulatory Approvals

As of the date of this joint proxy statement/prospectus, neither TorreyPines nor Raptor is required to make filings or to obtain approvals or clearances from any antitrust regulatory authorities in the United States or other countries to consummate the merger. In the United States, TorreyPines must comply with applicable federal and state securities laws and the rules and regulations of the The NASDAQ Stock Market LLC in connection with the issuance of shares of TorreyPines common stock and the resulting change in control of TorreyPines and the filing of this joint proxy statement/prospectus with the SEC.

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Tax Treatment of the Merger

TorreyPines and Raptor intend the merger to qualify as a reorganization within the meaning of Section 368(a) of the Internal Revenue Code of 1986, as amended, or the Code. Each of TorreyPines and Raptor will use its reasonable best efforts to cause the merger to qualify as a reorganization within the meaning of Section 368(a) of the Code, and not to, and not to permit or cause any affiliate or any subsidiary of TorreyPines or Raptor to, take any action or cause any action to be taken which would cause the merger to fail to qualify as a reorganization under Section 368(a) of the Code. For a description of the material United States federal tax considerations of the merger, see the section titled, **Material United States Federal Income Tax Consequences of the Merger** below. TorreyPines and Raptor will cooperate and use their reasonable best efforts in order for TorreyPines to obtain from Cooley Godward Kronish LLP, and Raptor to obtain from Paul, Hastings, Janofsky & Walker LLP, an opinion that the merger will qualify as a reorganization within the meaning of Section 368(a) of the Code.

Material United States Federal Income Tax Consequences of the Merger

The following discussion summarizes the anticipated material U.S. federal income tax consequences of the merger to Raptor stockholders who exchange their Raptor common stock for TorreyPines common stock in the merger. This summary is based upon current provisions of the Internal Revenue Code, existing regulations under the Internal Revenue Code and current administrative rulings and court decisions, all of which are subject to change. Any such change, which may or may not be retroactive, could alter the tax consequences to TorreyPines, Raptor or the stockholders of Raptor described in this summary. No attempt has been made to comment on all federal income tax consequences of the merger that may be relevant to particular Raptor stockholders, including stockholders:

who are subject to special tax rules, such as dealers in securities, foreign persons, mutual funds, insurance companies and tax-exempt entities;

who are subject to the alternative minimum tax provisions of the Internal Revenue Code;

who acquired their shares in connection with stock option or stock purchase plans or in other compensatory transactions;

who hold their shares as a hedge or as part of a hedging, straddle or other risk reduction strategy; or

who do not hold their shares as capital assets.

In addition, the following discussion does not address the tax consequences of the merger under state, local and foreign tax laws. Furthermore, the following discussion does not address:

the tax consequences of transactions effectuated before, after or at the same time as the merger, whether or not they are in connection with the merger, including, without limitation, transactions in which Raptor shares are acquired or TorreyPines shares are disposed of;

the tax consequences to holders of options issued by Raptor that are assumed, exercised or converted, as the case may be, in connection with the merger; or

the tax consequences of the receipt of TorreyPines shares other than in exchange for Raptor shares.

Accordingly, holders of Raptor common stock are advised and expected to consult their own tax advisors regarding the federal income tax consequences of the merger in light of their personal circumstances and the consequences under state, local and foreign tax laws.

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Cooley Godward Kronish LLP has delivered to TorreyPines, and Paul, Hastings, Janofsky & Walker LLP has delivered to Raptor, an opinion stating that the merger will constitute a reorganization within the meaning of Section 368(a) of the Internal Revenue Code. These opinions are attached as Exhibits 8.1 and 8.2 to the registration statement on Form S-4 filed with the Securities and Exchange Commission, which includes this

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proxy statement/prospectus. The tax opinions discussed in this section assume and are conditioned upon the following:

the truth and accuracy of the statements, covenants, representations and warranties contained in the merger agreement, in the tax representations received from TorreyPines, merger sub and Raptor to support the tax opinions and in all other instruments and documents related to the formation, organization and operation of TorreyPines, merger sub and Raptor examined by and relied upon by Cooley Godward Kronish LLP and Paul, Hastings, Janofsky & Walker LLP in connection with the merger;

that original documents submitted to such counsel are authentic, that documents submitted to such counsel as copies conform to the original documents and that all of these documents have been (or will be by the effective time) duly and validly executed and delivered where due execution and delivery are a prerequisite to the effectiveness of these documents;

that all covenants contained in the merger agreement and the tax representations described above are performed without waiver or breach of any material provision of these covenants; and

that any representation or statement made to the best of knowledge or similarly qualified is correct without that qualification. No ruling from the Internal Revenue Service has been or will be requested in connection with the merger. In addition, stockholders of Raptor should be aware that the tax opinions discussed in this section are not binding on the IRS or any court. The IRS could adopt a contrary position and a contrary position could be sustained by a court.

Subject to the assumptions and limitations discussed above, it is the opinion of Paul, Hastings, Janofsky & Walker LLP, tax counsel to Raptor, and Cooley Godward Kronish LLP, tax counsel to TorreyPines, that:

the merger will be treated for federal income tax purposes as a reorganization;

TorreyPines, merger sub and Raptor will each be a party to the reorganization;

TorreyPines, merger sub and Raptor will not recognize any gain or loss solely as a result of the merger;

stockholders of Raptor will not recognize any gain or loss upon the receipt of solely TorreyPines common stock for their Raptor common stock;

the aggregate basis of the shares of TorreyPines common stock that are received by a Raptor stockholder in the merger (including any fractional share deemed received) will be the same as the aggregate basis of the shares of Raptor common stock surrendered in exchange therefor;

the holding period of the shares of TorreyPines common stock received by a Raptor stockholder in the merger will include the holding period of the shares of Raptor common stock surrendered in the merger if such shares of Raptor common stock are held as capital assets at the effective time of the merger; and

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a stockholder of Raptor who receives cash instead of a fractional share of TorreyPines common stock will recognize gain or loss equal to the difference, if any, between such stockholder's basis in the fractional share and the amount of cash received. Such gain or loss will be a capital gain or loss if the Raptor common stock is held by such stockholder as a capital asset at the effective time of the merger.

a stockholder of Raptor who exercises appraisal rights and receives cash in exchange for such stockholder's Raptor common stock will generally recognize gain or loss measured by the difference between the amount of cash received and the adjusted basis of the Raptor common stock surrendered.

In addition to the foregoing, there are other tax-related issues that you should be aware of, such as:

Reporting Requirements. Each Raptor stockholder that receives TorreyPines common stock in the merger will be required to file a statement with his, her or its federal income tax return setting forth the

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stockholder's basis in the Raptor stock surrendered and the fair market value of the TorreyPines stock and cash received in the merger, and to retain permanent records of these facts relating to the merger.

Backup Withholding. Unless an exemption applies under applicable law and regulations, the exchange agent is required to withhold, and will withhold, 28% of any cash payments to a Raptor stockholder in the merger unless the stockholder provides the appropriate form as described below.

Each Raptor stockholder should complete and sign the substitute Form W-9 included as part of the letter of transmittal to be sent to each Raptor stockholder, so as to provide the information, including such stockholder's taxpayer identification number, and certification necessary to avoid backup withholding, unless an applicable exemption exists and is proved in a manner satisfactory to TorreyPines and the exchange agent.

Consequences of IRS Challenge. A successful IRS challenge to the reorganization status of the merger would result in significant tax consequences. Raptor stockholders would recognize gain or loss with respect to each share of Raptor common stock surrendered in the merger. Such gain or loss would be equal to the difference between the stockholder's basis in such share and the sum of the fair market value, as of the effective time, of the TorreyPines common stock received in the merger and any cash received instead of a fractional share of TorreyPines common stock. In such event, a stockholder's aggregate basis in the TorreyPines common stock so received would equal its fair market value as of the effective time and the stockholder's holding period for such stock would begin the day after the merger is consummated.

THE SUMMARY OF MATERIAL U.S. FEDERAL INCOME TAX CONSEQUENCES SET FORTH ABOVE IS INTENDED TO PROVIDE ONLY A GENERAL SUMMARY AND IS NOT INTENDED TO BE A COMPLETE ANALYSIS OR DESCRIPTION OF ALL POTENTIAL FEDERAL INCOME TAX CONSEQUENCES OF THE MERGER. IN ADDITION, THE SUMMARY DOES NOT ADDRESS TAX CONSEQUENCES THAT MAY VARY WITH, OR ARE CONTINGENT ON, INDIVIDUAL CIRCUMSTANCES. MOREOVER, THE SUMMARY DOES NOT ADDRESS ANY NON-INCOME TAX OR ANY FOREIGN, STATE OR LOCAL TAX CONSEQUENCES OF THE MERGER. THE SUMMARY DOES NOT ADDRESS THE TAX CONSEQUENCES OF ANY TRANSACTION OTHER THAN THE MERGER. ACCORDINGLY, EACH RAPTOR STOCKHOLDER IS STRONGLY URGED TO CONSULT WITH A TAX ADVISOR TO DETERMINE THE PARTICULAR FEDERAL, STATE, LOCAL OR FOREIGN INCOME OR OTHER TAX CONSEQUENCES OF THE MERGER TO SUCH STOCKHOLDER.

NASDAQ Stock Market Listing

TorreyPines common stock currently is listed on the NASDAQ Global Market under the symbol TPTX. TorreyPines has agreed to use its commercially reasonable efforts to obtain approval for listing of the combined company on the NASDAQ Capital Market or, to the extent agreed by the parties, the NASDAQ Global Market, of the TorreyPines common stock.

Prior to consummation of the merger, TorreyPines intends to file an initial listing application with the NASDAQ Capital Market. Acceptance of the initial listing application and the listing of the shares of TorreyPines common stock on the NASDAQ Capital Market is a condition to closing the merger. Because the listing standards of the NASDAQ Capital Market will require TorreyPines to have, among other things, a \$4.00 per share minimum bid price, the reverse stock split will be necessary in order to consummate the merger, but there is no assurance that the reverse stock split will be sufficient from The NASDAQ Stock Market LLC's perspective in order to approve the listing application. If such application is accepted, TorreyPines anticipates that the combined company's common stock will be listed on the NASDAQ Capital Market upon the closing of the merger and will trade under the combined company's new name, Raptor Pharmaceutical Corp., and new trading symbol, RPTP.

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Conditions Precedent

The obligation of Raptor to complete the merger is subject to the satisfaction or waiver of the following conditions:

TorreyPines must have obtained all necessary permits and authorizations under any state blue sky laws, the Securities Act and the Exchange Act relating to the issuance of the TorreyPines common stock to be issued in the merger and such permits and authorizations shall be in effect at the closing of the merger;

TorreyPines must have more than \$0 in Net Cash as measured on closing date of the merger agreement;

TorreyPines must have completed the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. ;

TorreyPines must have delivered to Raptor written resignations of the officers and directors of TorreyPines and merger sub;

the stockholders of Raptor holding not more than 10% of the Raptor common stock outstanding immediately prior to the effective time of the merger shall have exercised their dissenters' rights under Section 262 of the DGCL; *provided, however*; that such percentage shall not include any shares of Raptor common stock held by a director or executive officer of Raptor or the 13,128,332 shares of Raptor common stock held by Aran Asset Management SA as of the date of the merger agreement;

Raptor must have received the opinion of Paul, Hastings, Janofsky & Walker LLP, dated as of the closing date of the merger, to the effect that, on the basis of the facts, representations and assumptions set forth or referred to in such opinion, the merger will be treated for federal income tax purposes as a reorganization within the meaning of Section 368(a) of the Code;

Each of TorreyPines existing directors must resign; and

Raptor must have received an executed release and waiver of claims agreement from each of Evelyn Graham, Craig Johnson and Paul Schneider, TorreyPines' Chief Executive Officer, Chief Financial Officer and Vice President and General Counsel, respectively.

Anticipated Accounting Treatment

The merger will be treated by TorreyPines as a reverse merger under the purchase method of accounting in accordance with United States generally accepted accounting principles. For accounting purposes, Raptor is considered to be acquiring TorreyPines in this transaction. Therefore, the aggregate consideration paid in connection with the merger, together with the direct costs of acquisition, will be allocated to TorreyPines' tangible and intangible assets and liabilities based on their fair market values. The assets and liabilities and results of operations of TorreyPines will be consolidated into the results of operations of Raptor as of the effective time of the merger. These allocations will be based upon a valuation that has not yet been finalized.

Appraisal Rights

In connection with the merger, Raptor stockholders are entitled to appraisal rights under Section 262 of the DGCL, or Section 262, provided that they comply with the conditions established by Section 262.

The discussion below is not a complete summary regarding an Raptor stockholder's appraisal rights under Delaware law and is qualified in its entirety by reference to the text of the relevant provisions of Delaware law, which are attached to this joint proxy statement/prospectus as *Annex B*. Stockholders intending to exercise appraisal rights should carefully review *Annex B*. Failure to follow precisely any of the statutory

procedures set forth in *Annex B* may result in a termination or waiver of these rights.

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A record holder of shares of Raptor's common stock who makes the demand described below with respect to such shares, who continuously is the record holder of such shares through the effective time of the merger, who otherwise complies with the statutory requirements of Section 262 and who neither votes in favor of the merger nor consents thereto in writing will be entitled to an appraisal by the Delaware Court of Chancery, or the Delaware Court, of the fair value of his, her or its shares of Raptor's common stock in lieu of the consideration that such stockholder would otherwise be entitled to receive pursuant to the merger agreement. All references in this summary of appraisal rights to a stockholder or holders of shares of Raptor's common stock are to the record holder or holders of shares of Raptor's common stock. Except as set forth herein, stockholders of Raptor will not be entitled to appraisal rights in connection with the merger.

Under Section 262, where a merger is to be submitted for approval at a meeting of stockholders, such as the Raptor annual meeting, not less than 20 days prior to the meeting, a constituent corporation must notify each of the holders of its stock for whom appraisal rights are available that such appraisal rights are available and include in each such notice a copy of Section 262. This joint proxy statement/prospectus shall constitute such notice to the record holders of Raptor's common stock.

Stockholders who desire to exercise their appraisal rights must satisfy all of the conditions of Section 262. Those conditions include the following:

Stockholders electing to exercise appraisal rights must not vote for the adoption of the merger agreement. Voting for the adoption of the merger agreement will result in the waiver of appraisal rights. Also, because a submitted proxy not marked against or abstain will be voted for the proposal to adopt the merger agreement, the submission of a proxy not marked against or abstain will result in the waiver of appraisal rights.

A written demand for appraisal of shares must be filed with Raptor before the taking of the vote on the merger agreement at the annual meeting. The written demand for appraisal should specify the stockholder's name and mailing address, and that the stockholder is thereby demanding appraisal of his or her Raptor common stock. The written demand for appraisal of shares is in addition to and separate from a vote against the merger agreement or an abstention from such vote. That is, failure to return your proxy, voting against, or abstaining from voting on, the merger will not satisfy your obligation to make a written demand for appraisal.

A demand for appraisal must be executed by or for the stockholder of record, fully and correctly, as such stockholder's name appears on the stock certificate. If the shares are owned of record in a fiduciary capacity, such as by a trustee, guardian or custodian, this demand must be executed by or for the fiduciary. If the shares are owned by or for more than one person, as in a joint tenancy or tenancy in common, such demand must be executed by or for all joint owners. An authorized agent, including an agent for two or more joint owners, may execute the demand for appraisal for a stockholder of record. However, the agent must identify the record owner and expressly disclose the fact that, in exercising the demand, he is acting as agent for the record owner. A person having a beneficial interest in Raptor's common stock held of record in the name of another person, such as a broker or nominee, must act promptly to cause the record holder to follow the steps summarized below in a timely manner to perfect whatever appraisal rights the beneficial owners may have.

A stockholder who elects to exercise appraisal rights should mail or deliver his, her or its written demand to Raptor at 9 Commercial Blvd., Suite 200, Novato, CA 94949, Attention: Kim Tsuchimoto.

Within ten days after the effective time of the merger, Raptor must provide notice of the effective time of the merger to all Raptor stockholders who have complied with Section 262 and have not voted in favor of the adoption of the merger agreement.

Within 120 days after the effective time of the merger, either Raptor or any stockholder who has complied with the required conditions of Section 262 may commence an appraisal proceeding by filing a petition in the

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Delaware Court, with a copy served on Raptor in the case of a petition filed by a stockholder, demanding a determination of the fair value of the shares of all dissenting stockholders. There is no present intent on the part of Raptor to file an appraisal petition and stockholders seeking to exercise appraisal rights should not assume that Raptor will file such a petition or that Raptor will initiate any negotiations with respect to the fair value of such shares. Accordingly, holders of Raptor's common stock who desire to have their shares appraised should initiate any petitions necessary for the perfection of their appraisal rights within the time periods and in the manner prescribed in Section 262.

Within 120 days after the effective time of the merger, any stockholder who has satisfied the requirements of Section 262 will be entitled, upon written request, to receive from Raptor a statement setting forth the aggregate number of shares of Raptor's common stock not voting in favor of the adoption of the merger agreement and with respect to which demands for appraisal were received by Raptor and the aggregate number of holders of such shares. Such statement must be mailed within 10 days after the stockholder's request has been received by Raptor or within 10 days after the expiration of the period for the delivery of demands as described above, whichever is later. Notwithstanding the foregoing, a person who is the beneficial owner of shares of Raptor's common stock held either in a voting trust or by a nominee on behalf of such person may, in such person's own name, file a petition or request from the surviving corporation the statement described in this paragraph.

If a petition for an appraisal is timely filed and a copy thereof is served upon Raptor, Raptor will then be obligated, within 20 days after service, to file with the Register in Chancery a duly verified list containing the names and addresses of all stockholders who have demanded an appraisal of their shares and with whom agreements as to the value of their shares have not been reached. After notice to stockholders, as required by the Delaware Court, at the hearing on such petition, the Delaware Court will determine which stockholders are entitled to appraisal rights. The appraisal proceeding shall be conducted in accordance with the rules of the Delaware Court, including any rules specifically governing appraisal proceedings. The Delaware Court may require the stockholders who have demanded an appraisal for their shares and who hold stock represented by certificates to submit their certificates of stock to the Register in Chancery for notation thereon of the pendency of the appraisal proceedings; and if any stockholder fails to comply with such direction, the Delaware Court may dismiss the proceedings as to such stockholder. Where proceedings are not dismissed, the Delaware Court will appraise the shares of Raptor's common stock owned by such stockholders, determining the fair value of such shares exclusive of any element of value arising from the accomplishment or expectation of the merger, together with a fair rate of interest, if any, to be paid upon the amount determined to be the fair value. Unless the Delaware Court in its discretion determines otherwise for good cause shown, interest from the effective date of the merger through the date of payment of the judgment shall be compounded quarterly and shall accrue at 5% over the Federal Reserve discount rate (including any surcharge) as established from time to time during the period between the effective date of the merger and the date of payment of the judgment.

Although the board of directors of Raptor believes that the merger consideration is fair, no representation is made as to the outcome of the appraisal of fair value as determined by the Delaware Court and stockholders should recognize that such an appraisal could result in a determination of a value higher or lower than, or the same as, the consideration they would receive pursuant to the merger agreement. Moreover, Raptor does not anticipate offering more than the merger consideration to any stockholder exercising appraisal rights and reserves the right to assert, in any appraisal proceeding, that, for purposes of Section 262, the fair value of a share of Raptor's common stock is less than the merger consideration. In determining fair value, the Delaware Court is required to take into account all relevant factors. The cost of the appraisal proceeding, which does not include attorneys' or experts' fees, may be determined by the Delaware Court and taxed against the dissenting stockholder and/or Raptor as the Delaware Court deems equitable in the circumstances. Each dissenting stockholder is responsible for his or her attorneys' and expert witness expenses, although, upon application of a dissenting stockholder, the Delaware Court may order that all or a portion of the expenses incurred by any dissenting stockholder in connection with the appraisal proceeding, including without limitation, reasonable attorneys' fees and the fees and expenses of experts, be charged pro rata against the value of all shares of stock entitled to appraisal.

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Any stockholder who has duly demanded appraisal in compliance with Section 262 will not, after the effective time of the merger, be entitled to vote for any purpose any shares subject to such demand or to receive payment of dividends or other distributions on such shares, except for dividends or distributions payable to stockholders of record at a date prior to the effective time of the merger.

At any time within 60 days after the effective time of the merger, any stockholder who has not commenced an appraisal proceeding or joined that proceeding as a named party will have the right to withdraw his, her or its demand for appraisal and to accept the terms offered in the merger agreement. After this period, a stockholder may withdraw his, her or its demand for appraisal and receive payment for his, her or its shares as provided in the merger agreement only with the consent of Raptor. If no petition for appraisal is filed with the court within 120 days after the effective time of the merger, stockholders' rights to appraisal, if available, will cease. Inasmuch as Raptor has no obligation to file such a petition, any stockholder who desires a petition to be filed is advised to file it on a timely basis. Any stockholder may withdraw such stockholder's demand for appraisal by delivering to Raptor a written withdrawal of his, her or its demand for appraisal and acceptance of the merger consideration, except (i) that any such attempt to withdraw made more than 60 days after the effective time of the merger will require written approval of Raptor and (ii) that no appraisal proceeding in the Delaware Court shall be dismissed as to any stockholder without the approval of the Delaware Court, and such approval may be conditioned upon such terms as the Delaware Court deems just; provided, however, that any stockholder who has not commenced an appraisal proceeding or joined that proceeding as a named party may withdraw his, her or its demand for appraisal and accept the merger consideration offered pursuant to the merger agreement within 60 days after the effective date of the merger.

Failure by any Raptor stockholder to comply fully with the procedures described above and set forth in *Annex B* to this joint proxy statement/prospectus may result in termination of such stockholder's appraisal rights. In view of the complexity of exercising appraisal rights under Delaware law, any Raptor stockholder considering exercising these rights should consult with legal counsel.

A stockholder who elects to exercise appraisal rights should mail or deliver his, her or its written demand to Raptor at 9 Commercial Blvd., Suite 200, Novato, CA 94949, Attention: Kim Tsuchimoto.

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THE MERGER AGREEMENT

The following is a summary of the material terms of the merger agreement. A copy of the merger agreement is attached as Annex A to this joint proxy statement/prospectus and is incorporated by reference into this joint proxy statement/prospectus. The merger agreement has been attached to this joint proxy statement/prospectus to provide you with information regarding its terms. It is not intended to provide any other factual information about TorreyPines, Raptor or merger sub. Such information can be found elsewhere in this proxy statement/prospectus and in the other public filings each of TorreyPines and Raptor makes with the Securities and Exchange Commission, which are available without charge at www.sec.gov. TorreyPines and Raptor encourage you to read the merger agreement in its entirety, as it is the legal document governing the merger, and the provisions of the merger agreement are not easily summarized. The following description does not purport to be complete and is qualified in its entirety by reference to the merger agreement. You should refer to the full text of the merger agreement for details of the merger and the terms and conditions of the merger agreement.

The merger agreement contains representations and warranties that TorreyPines and merger sub, on the one hand, and Raptor, on the other hand, have made to one another as of specific dates. These representations and warranties have been made for the benefit of the parties to the merger agreement and may be intended not as statements of fact but rather as a way of allocating the risk to one of the parties if those statements prove to be incorrect. In addition, the assertions embodied in the representations and warranties are qualified by information in confidential disclosure schedules exchanged by the parties in connection with signing the merger agreement. While TorreyPines and Raptor do not believe that these disclosure schedules contain information required to be publicly disclosed under the applicable securities laws, other than information that has already been so disclosed, the disclosure schedules do contain information that modifies, qualifies and creates exceptions to the representations and warranties set forth in the attached merger agreement. Accordingly, you should not rely on the representations and warranties as current characterizations of factual information about TorreyPines, merger sub or Raptor, because they were made as of specific dates, may be intended merely as a risk allocation mechanism between TorreyPines, merger sub and Raptor and are modified by the disclosure schedules.

Structure of the Merger

Under the merger agreement, merger sub, a wholly-owned subsidiary of TorreyPines formed by TorreyPines in connection with the merger, will merge with and into Raptor, with Raptor surviving and continuing as a wholly-owned subsidiary of TorreyPines.

Merger Consideration and Adjustment

At the effective time of the merger, pursuant to the merger agreement each share of Raptor common stock outstanding immediately prior to the effective time of the merger, other than shares of Raptor common stock held by Raptor, TorreyPines or any wholly-owned subsidiary of TorreyPines or Raptor, will be converted into the right to receive, upon surrender of the certificate representing such share of Raptor common stock in the manner provided in the merger agreement, the number of shares of TorreyPines common stock equal to the 303,982,102 shares of TorreyPines common stock to be issued in the merger divided by 69,145,047 shares of Raptor common stock outstanding as of the signing of the merger agreement plus 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options outstanding as of the signing of the merger agreement plus any additional shares of Raptor common stock and securities exercisable for or exchangeable or convertible into Raptor common stock that may be issued following the execution of the merger agreement and prior to the effective time of the merger, subject to adjustment as described below, which is referred to as the exchange ratio.

The exchange ratio will be adjusted to account for the effect of (i) any stock split, the reverse stock split as described below, any reclassification, any recapitalization or any other like change with respect to TorreyPines' common stock or Raptor's common stock occurring after the date of the merger agreement and prior to the

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effective time of the merger and (ii) certain additional shares of Raptor common stock and securities exercisable for or exchangeable or convertible into Raptor common stock that may be issued following the execution of the merger agreement and prior to the effective time of the merger.

Following the merger, assuming that TorreyPines Proposal No. 3 is approved by TorreyPines stockholders at the TorreyPines annual meeting, TorreyPines will be renamed Raptor Pharmaceutical Corp. and the common stock of the combined company is expected to trade on the NASDAQ Capital Market under the symbol RPTP. Immediately after the merger, Raptor stockholders will hold 95% of the outstanding shares of common stock of the combined company and TorreyPines stockholders will hold 5% of the outstanding shares of common stock of the combined company, in each case without taking into account any of the other shares of TorreyPines common stock that may be issuable pursuant to outstanding options or warrants to acquire TorreyPines common stock outstanding as of the signing of the merger agreement or any other shares of Raptor common stock that may be issuable pursuant to outstanding options or warrants, other than the 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options included in the calculation of the exchange ratio.

The merger will be completed at the time of filing a certificate of merger with the Secretary of State of the State of Delaware or at such later time as may be specified in such certificate of merger with the consent of the parties to the merger agreement. The completion of the merger will take place on the date that is no later than three business days after the satisfaction or waiver of all of the conditions to completion of the merger set forth in the merger agreement. However, because the merger is subject to a number of conditions, neither TorreyPines nor Raptor can predict exactly when the closing will occur or if it will occur at all.

Assumption of Raptor Stock Options and Warrants

At the effective time of the merger, each outstanding stock option to purchase Raptor common stock not exercised immediately prior to the effective time of the merger, whether or not vested, will be assumed by TorreyPines and become exercisable (a) for such number of shares of TorreyPines common stock as is determined by multiplying the number of shares of Raptor common stock subject to the option by the exchange ratio and rounding that result down to the nearest whole number of shares of TorreyPines common stock, and (b) at a per share exercise price as is determined by dividing the existing exercise price of the option by the exchange ratio and rounding that result up to the nearest whole cent, subject to adjustment to account for the reverse stock split. Any restrictions on the exercise of any Raptor option assumed by TorreyPines will continue following the conversion and the term, exercisability, vesting schedules and other provisions of assumed Raptor options will generally remain unchanged; provided, that any Raptor options assumed by TorreyPines may be subject to adjustment to reflect changes in TorreyPines capitalization after the effective time of the merger and that the TorreyPines board of directors will succeed to the authority of the Raptor board with respect to each assumed Raptor option.

At the effective time of the merger, each outstanding warrant to purchase shares of Raptor common stock not terminated or exercised immediately prior to the effective time of the merger will be assumed by TorreyPines and will become exercisable (a) for such number of shares of TorreyPines common stock as is determined by multiplying the number of shares of Raptor common stock subject to each warrant by the exchange ratio and rounding that result down to the nearest whole number of shares of TorreyPines common stock, and (b) at a per share exercise price determined by dividing the per share exercise price of the Raptor common stock subject to each warrant as in effect immediately prior to the effective time of the merger by the exchange ratio and rounding that result up to the nearest whole cent, subject to adjustment to account for the reverse stock split.

All outstanding options and warrants, respectively, to purchase Raptor common stock will be assumed by TorreyPines in the merger and will become exercisable for shares of TorreyPines common stock based on the exchange ratio as discussed in the section titled, "The Merger Stock Options and Warrants" in this joint proxy statement/prospectus.

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Fractional Shares

TorreyPines will not issue any fractional shares of common stock in connection with the merger. Instead, the merger agreement provides that each holder of Raptor common stock who would otherwise be entitled to receive, after aggregating all fractional shares of TorreyPines common stock that would otherwise be received by such Raptor stockholder, a fraction of a share of TorreyPines common stock will be entitled to receive cash, without interest, in an amount equal to such fraction multiplied by the closing price of TorreyPines common stock on the date the merger is completed, as reported on the NASDAQ Global Market.

Exchange of Raptor Stock Certificates for TorreyPines Stock Certificates

The merger agreement provides that on or prior to the completion of the merger, TorreyPines and Raptor will select a reputable bank, transfer agent or trust company to act as exchange agent for the merger. Promptly after the effective time of the merger, TorreyPines will deposit with the exchange agent: (i) certificates representing the shares of TorreyPines common stock issuable to Raptor stockholders, and (ii) cash sufficient to make payments in lieu of fractional shares. In addition, promptly following the effective time of the merger, the exchange agent will mail to each record holder of Raptor common stock a letter of transmittal and instructions for surrendering the record holder's stock certificates in exchange for the merger consideration.

Holders of Raptor common stock who properly surrender their Raptor stock certificates in accordance with the exchange agent's instructions will receive:

a certificate representing the number of whole shares of TorreyPines common stock to which such holder is entitled pursuant to the merger agreement; and

cash in lieu of any fractional share of TorreyPines common stock.

The Raptor stock certificates so surrendered will be canceled. After the effective time of the merger, outstanding Raptor stock certificates that have not been surrendered will represent only the right to receive the shares of TorreyPines common stock (and any dividends or distributions with respect to such shares of TorreyPines common stock), and cash in lieu of fractional shares enumerated above. Following the completion of the merger, TorreyPines will not register any transfers of Raptor common stock on its stock transfer books.

Holders of Raptor common stock should not send in their Raptor stock certificates until they receive a letter of transmittal from the exchange agent with instructions for the surrender of Raptor stock certificates. In all cases, the certificates representing shares of TorreyPines common stock and cash in lieu of fractional shares will be delivered only in accordance with the procedures set forth in the letter of transmittal.

Distributions with Respect to Unexchanged Shares

Holders of Raptor common stock are not entitled to receive any dividends or other distributions on TorreyPines common stock until the merger is completed. After the merger is completed, holders of Raptor common stock will be entitled to receive dividends and other distributions declared or made after completion of the merger with respect to the number of shares of TorreyPines common stock that they are entitled to receive upon exchange of their Raptor common stock, but they will not be paid any such dividends or other distributions until they surrender their Raptor stock certificates to the exchange agent in accordance with the exchange agent's instructions. After surrender of the Raptor stock certificates, such holders will receive any such dividends or other distributions to which they are entitled without interest.

Lost, Stolen or Destroyed Stock Certificates

If any Raptor stock certificate has been lost, stolen or destroyed, TorreyPines or the exchange agent may, in its discretion and as a condition precedent to the issuance of any certificate representing TorreyPines common

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stock in exchange therefor pursuant to the merger agreement, require the owner of such certificate to deliver an affidavit claiming that such certificate has been lost, stolen or destroyed and a bond in such sum as TorreyPines or the exchange agent may reasonably direct as indemnity against any claim that may be made with respect to that certificate against TorreyPines, Raptor or the exchange agent.

Directors and Officers of TorreyPines Following the Merger

Effective as of the closing of the merger, the combined company's officers are expected to be Christopher M. Starr, Ph.D. (Chief Executive Officer), Todd C. Zankel, Ph.D. (Chief Scientific Officer), and Kim R. Tsuchimoto (Chief Financial Officer, Treasurer and Secretary), each of whom currently holds the same position at Raptor. The combined company will initially have a four member board of directors, comprised of the four individuals from Raptor's current board of directors, Christopher M. Starr, Ph.D., Raymond W. Anderson, Erich Sager and Richard L. Franklin, M.D., Ph.D.

Amendment to TorreyPines Certificate of Incorporation

The merger agreement provides that TorreyPines' stockholders must approve, as a condition to closing the merger and in order to meet The NASDAQ Capital Market's initial listing standard of a \$4.00 per share minimum bid price, the amendment to TorreyPines' certificate of incorporation to effect a reverse stock split of TorreyPines common stock, which requires the affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power outstanding on the record date for the TorreyPines annual meeting. Upon the effectiveness of the amendment to TorreyPines' certificate of incorporation effecting the reverse stock split, or the split effective time, the issued shares of TorreyPines common stock immediately prior to the split effective time will be combined into a smaller number of shares. Depending on the ratio for the reverse stock split, each ten, eleven, twelve, thirteen, fourteen, fifteen, seventeen, twenty, twenty-five, thirty, thirty-five, forty, forty-five, fifty, fifty-five, sixty or seventy shares, of existing TorreyPines common stock held by a TorreyPines stockholder immediately prior to the split effective time will be converted into one new share of TorreyPines common stock. The number of shares of common stock issued and outstanding will therefore be reduced, depending upon the reverse stock split ratio determined by the TorreyPines board of directors and approved by the Raptor board of directors. The amendment to the restated certificate of incorporation that is filed to effect the reverse stock split, if any, will include only the reverse split ratio determined by the boards of directors of TorreyPines and Raptor, respectively, that causes the combined company's stock price to be at least \$4.00 per share and which is determined to be in the best interests of the stockholders of TorreyPines and Raptor, respectively, and all of the other proposed amendments at different ratios will be abandoned. The exact split ratio will be publicly announced by TorreyPines.

Stockholders of record of TorreyPines common stock on the record date for the TorreyPines annual meeting will also be asked to approve the amendment to TorreyPines' certificate of incorporation to change the name of the corporation from TorreyPines Therapeutics, Inc. to Raptor Pharmaceuticals Corp. upon consummation of the merger, which requires the affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power outstanding on the record date for the TorreyPines annual meeting.

Conditions to the Completion of the Merger

Each party's obligation to complete the merger is subject to the satisfaction or waiver by each of the parties, at or prior to the effective time of the merger, of various conditions, which include the following:

the registration statement on Form S-4, of which this joint proxy statement/prospectus is a part, must have been declared effective by the SEC in accordance with the Securities Act and must not be subject to any stop order, or any proceeding initiated or threatened by the SEC, seeking a stop order;

stockholders of Raptor must have adopted the merger agreement, and stockholders of TorreyPines must have approved the issuance of TorreyPines common stock, and the amendment to TorreyPines

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certificate of incorporation effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. ;

TorreyPines must have caused the shares of TorreyPines common stock Raptor stockholders will be entitled to receive pursuant to the merger to be approved for listing on the NASDAQ Capital Market, or if agreed to by TorreyPines and Raptor, the NASDAQ Global Market, following the closing of the merger;

there must not have been issued and remain in effect any temporary restraining order, preliminary or permanent injunction or other order preventing the consummation of the merger, and no law, statute, rule, regulation, ruling or other legal requirement shall be in effect which has the effect of making the consummation of the merger illegal or otherwise prohibits or interferes with the consummation of the merger;

there must not be any legal proceeding pending by any governmental body: (1) challenging or seeking to restrain or prohibit the consummation of the merger or any other transaction contemplated by the merger agreement; (2) relating to the merger and seeking to obtain from TorreyPines, merger sub or Raptor any damages or other relief that may be material to TorreyPines or Raptor; (3) seeking to prohibit or limit in any material respect a Raptor s stockholder s ability to vote, receive dividends with respect to or otherwise exercise ownership rights with respect to the stock of TorreyPines; (4) that could materially and adversely affect the right or ability of TorreyPines or Raptor to own the assets or operate the business of TorreyPines or Raptor; (5) seeking to compel Raptor, TorreyPines or any of their respective subsidiaries to dispose of or hold separate any material assets as a result of the merger or any other transaction contemplated by the merger agreement; or (6) or which, if adversely determined, would reasonably be expected to have a material adverse affect on TorreyPines or Raptor.

In addition, each party s obligation to complete the merger is further subject to the satisfaction (or waiver by that party) of the following additional conditions:

all representations and warranties of the other non-affiliated party (or parties) in the merger agreement must be true and correct on the date of the merger agreement and on the closing date of the merger with the same force and effect as if made on the date on which the merger is to be completed or, if such representations and warranties address matters as of a particular date, then as of that particular date, except where the failure of these representations and warranties to be true and correct, disregarding any materiality qualifications, individually or in the aggregate, would not reasonably be expected to have a material adverse effect on the non-affiliated party (or parties) making the representations and warranties, or except to the extent that any representation and/or warranty shall not be true and correct due to those activities specifically permitted by the merger agreement, and such non-affiliated party (or parties) shall have delivered a certificate of its (or their) chief executive officer and chief financial officer to such effect;

the other non-affiliated party (or parties) to the merger agreement must have performed or complied with in all material respects all covenants and obligations required to be performed or complied with by it (or them) on or before the closing of the merger and such non-affiliated party (or parties) shall have delivered a certificate of one of its (or their) executive officers to such effect;

there shall not have occurred and be continuing a material adverse effect on the other non-affiliated party (or parties);

all consents from any third person required to be obtained by the other non-affiliated party (or parties) shall have been obtained, made or given and such consents must be in full force and effect at the closing of the merger; and

the other non-affiliated party (or parties) must have delivered the documents required under the merger agreement for the closing of the merger.

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In addition, the obligation of TorreyPines and the merger sub to complete the merger is further subject to the satisfaction or waiver of the following condition:

TorreyPines must have received the opinion of Cooley Godward Kronish LLP, dated as of the closing date of the merger, to the effect that, on the basis of the facts, representations and assumptions set forth or referred to in such opinion, the merger will be treated for federal income tax purposes as a reorganization within the meaning of Section 368(a) of the Code.

In addition, the obligation of Raptor to complete the merger is further subject to the satisfaction or waiver of the following conditions:

TorreyPines must have obtained all necessary permits and authorizations under any state blue sky laws, the Securities Act and the Exchange Act relating to the issuance of the TorreyPines common stock to be issued in the merger and such permits and authorizations shall be in effect at the closing of the merger;

TorreyPines must have more than \$0 in Net Cash as measured on closing date of the merger agreement;

TorreyPines must have completed the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. ;

TorreyPines must have delivered to Raptor written resignations of the officers and directors of TorreyPines and merger sub;

the stockholders of Raptor holding not more than 10% of the Raptor common stock outstanding immediately prior to the effective time of the merger shall have exercised their dissenters' rights under Section 262 of the DGCL; *provided, however*; that such percentage shall not include any shares of Raptor common stock held by a director or executive officer of Raptor or the 13,128,332 shares of Raptor common stock held by Aran Asset Management SA as of the date of the merger agreement;

Raptor must have received the opinion of Paul, Hastings, Janofsky & Walker LLP, dated as of the closing date of the merger, to the effect that, on the basis of the facts, representations and assumptions set forth or referred to in such opinion, the merger will be treated for federal income tax purposes as a reorganization within the meaning of Section 368(a) of the Code;

Each of TorreyPines existing directors must resign; and

Raptor must have received an executed release and waiver of claims agreement from each of Evelyn Graham, Craig Johnson and Paul Schneider, TorreyPines' Chief Executive Officer, Chief Financial Officer and Vice President and General Counsel, respectively.

Net Cash is defined in the merger agreement, generally, as the sum of (a) (i) TorreyPines' cash and cash equivalents, short-term investments, net and restricted cash, and (ii) all tax refunds and refunds of prepaid expenses due and owing to TorreyPines or any of its subsidiaries that have not been received as of the closing of the merger agreement, minus (b) the sum of all liabilities and obligations of TorreyPines and any of its subsidiaries (other than all costs and expenses which are the exclusive responsibility of Raptor as described in the merger agreement).

No Solicitation

Each of TorreyPines and Raptor agreed that, except as described below, TorreyPines and Raptor and any of their respective subsidiaries will not, nor will either party or any of its subsidiaries authorize or permit any of the officers, directors, Raptor, employees, agents, attorneys, accountants, advisors and representatives retained by it or any of its subsidiaries to, directly or indirectly:

solicit, initiate, encourage, induce or knowingly facilitate the making, submission or announcement of, any acquisition proposal, as defined below, or any action that could reasonably be expected to lead to an acquisition proposal;

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furnish any information regarding such party or any of its subsidiaries to any person in connection with or in response to an acquisition proposal or an inquiry or indication of interest that could reasonably be expected to lead to an acquisition proposal;

engage in discussions or negotiations with any person with respect to any acquisition proposal;

approve, endorse or recommend an acquisition proposal; or

enter into any letter of intent or similar document or any contract contemplating or otherwise relating to an acquisition transaction, as defined below.

An acquisition proposal means any offer, proposal, inquiry or indication of interest (other than by a party to the merger agreement) with respect to an acquisition transaction, as defined below.

An acquisition transaction means any transaction or series of transactions involving:

any merger, consolidation, share exchange, business combination, issuance or acquisition of securities, tender offer, exchange offer or similar transaction: (1) in which Raptor, TorreyPines or merger sub (or any of their respective subsidiaries) is a constituent corporation, (2) in which any individual, entity, governmental entity, or group, as defined under applicable securities laws, directly or indirectly acquires beneficial or record ownership of securities representing more than 15% of the outstanding securities of any class of voting securities of Raptor, TorreyPines or merger sub or any of their respective subsidiaries or (3) in which Raptor, TorreyPines or merger sub or any of their respective subsidiaries issues or sells securities representing more than 15% of the outstanding voting securities of any class of voting securities of such party or any of its respective subsidiaries; and

any sale, lease (other than in the ordinary course of business), exchange, transfer, license (other than in the ordinary course of business), acquisition or disposition of any business or assets that constitute 15% or more of the consolidated net revenues, net income or book value of the assets (on a book value or fair market value basis) of Raptor, TorreyPines or merger sub and their respective subsidiaries, as applicable.

Notwithstanding the foregoing, the following transactions have been excluded from the definition of acquisition transaction and the non-solicitation provisions do not restrict any of the following activities:

any issuance of securities or series of issuances of securities by Raptor at any time, which is for capital-raising purposes;

any one or a series of transactions involving a licensing, partnership, joint or collaborative venture, co-development or co-promotion agreement or similar arrangement involving one or more of Raptor's product candidates or potential product candidates or the acquisition of assets, a business or a product line so long as such transactions, individually or in the aggregate, do not result in a change of control transaction (as defined below); or

contacting potential partners with regard to a potential transaction related to NGX426 as contemplated in the amended and restated employment agreements with TPTX, Inc. (as described in this joint proxy statement/prospectus), any contract for which, or the consummation of which, has been approved by Raptor in writing.

For purposes of the merger agreement, change of control transaction means (i) a merger, consolidation, amalgamation, share exchange, business combination, issuance of securities, acquisition of securities, reorganization, recapitalization, tender offer, exchange offer or other similar transaction as a result of which either (A) Raptor's stockholders immediately prior to such transaction in the aggregate cease to own at least 50% of the voting securities of the entity surviving or resulting from such transaction (or the ultimate parent entity thereof) or (B) in which a person or group (as defined in the Exchange Act and the rules promulgated thereunder) directly or indirectly acquires beneficial or record ownership of

securities representing 50% or more

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of Raptor's capital stock or (ii) a sale, lease, exchange, transfer, license or disposition of any business or other disposition of at least 50% of the assets (on a book value or fair market value basis) or intellectual property of Raptor and its subsidiaries, taken as a whole, as applicable, in a single transaction or a series of related transactions.

However, before obtaining the applicable TorreyPines or Raptor stockholder approvals required to consummate the merger, each party may furnish non-public information regarding such party to, and may enter into discussions or negotiations with, any third party in response to a superior proposal (as defined below) or a bona fide unsolicited written acquisition proposal made or received after the date of the merger agreement, that is reasonably likely to result in a superior proposal if:

neither such party nor any representative of such party has breached the no solicitation provisions of the merger agreement described above;

that party's board of directors concludes in good faith, after having taken into account the advice of outside legal counsel, that the failure to take such action is reasonably likely to result in a breach of the fiduciary duties of such board of directors under applicable legal requirements;

such party gives the other party at least two business days' prior notice of the identity of the third party and of such party's intention to furnish non-public information to, or enter into discussions or negotiations with, such third party before furnishing any non-public information or entering into discussions or negotiations with such person;

such party receives from the third party an executed confidentiality agreement containing customary limitations on the use and disclosure of all nonpublic information furnished to such third party and standstill provisions at least as favorable to such party as those contained in the confidentiality agreement between TorreyPines and Raptor; and

at least two business days' prior to the furnishing of any non-public information to a third party, such party furnishes the same non-public information to the other party to the extent not previously furnished.

For purposes of the merger agreement, superior proposal means, with respect to a party to the merger agreement, an unsolicited, bona fide written offer made by a third person to enter into (i) a merger, consolidation, amalgamation, share exchange, business combination, issuance of securities, acquisition of securities, reorganization, recapitalization, tender offer, exchange offer or other similar transaction as a result of which either (A) such party's stockholders immediately prior to such transaction in the aggregate cease to own at least 50% of the voting securities of the entity surviving or resulting from such transaction (or the ultimate parent entity thereof) or (B) in which a person or group (as defined in the Exchange Act and the rules promulgated thereunder) directly or indirectly acquires beneficial or record ownership of securities representing 50% or more of such party's capital stock or (ii) a sale, lease, exchange transfer, license or disposition of any business or other disposition of at least 50% of the assets (on a book value or fair market value basis) of such party or its subsidiaries, taken as a whole, in a single transaction or a series of related transactions that: (a) was not obtained or made as a direct or indirect result of a breach of (or in violation of) the no-solicitation provisions of the merger agreement; and (b) is on terms and conditions that the board of directors of such party, determines, in its good faith judgment, after obtaining and taking into account such matters that its board of directors deems relevant following consultation with its outside legal counsel and financial advisor: (x) is more favorable, from a financial point of view, to such party's stockholders, than the terms of the merger; and (y) is reasonably capable of being consummated.

An offer shall not be deemed to be a superior proposal if (i) any financing required to consummate the transaction contemplated by such offer is not committed unless the board of directors of TorreyPines or Raptor, as applicable, determines in good faith, that any required financing is reasonably capable of being obtained by such third person, or (ii) the consummation of such transaction is contingent on any such financing being obtained.

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The merger agreement also provides that each party will as of the date of the merger agreement, cease and cause to be terminated any then-existing discussions with any third person that relate to any acquisition proposal, and further will promptly advise the other of the status and terms of, and keep the other party fully informed with respect to, any acquisition proposal or any inquiry or indication of interest that could reasonably be expected to lead to an acquisition proposal or request for nonpublic information relating to such party or its subsidiaries.

TorreyPines Stockholders Meeting; Obligation of the TorreyPines Board of Directors

TorreyPines has agreed to take all action necessary to call, give notice of and, as promptly as practicable after the registration statement (of which this joint proxy statement/prospectus is a part) is declared effective under the Securities Act, hold a meeting of its stockholders to vote on the issuance of the TorreyPines common stock to be issued in the merger, the amendment to TorreyPines certificate of incorporation effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. . TorreyPines obligation to call, give notice of and hold a stockholders meeting shall not be limited or otherwise affected by the commencement, public proposal, public disclosure or communication of any acquisition proposal, or by any withdrawal or modification of the TorreyPines board recommendation, as discussed below.

TorreyPines has also agreed to include a statement in this joint proxy statement/prospectus to the effect that the TorreyPines board of directors unanimously recommends that TorreyPines stockholders vote to approve the issuance of the TorreyPines common stock to be issued in the merger, the amendment to TorreyPines certificate of incorporation effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp., such recommendation being referred to as the TorreyPines board recommendation. The merger agreement provides that the TorreyPines board recommendation may not be withdrawn or modified in a manner adverse to Raptor, and no resolution by the TorreyPines board of directors or any committee thereof to withdraw or modify the TorreyPines board recommendation in a manner adverse to Raptor may be adopted or proposed, except as provided below.

The merger agreement provides that the TorreyPines board of directors is entitled to withdraw or modify the TorreyPines board recommendation in a manner adverse to Raptor under the following conditions: (i) if an acquisition proposal is made to TorreyPines and is not withdrawn; (ii) TorreyPines provides Raptor with at least three business days prior notice of any meeting of the TorreyPines board of directors at which such board will consider and determine whether such acquisition proposal is a superior proposal; (iii) the TorreyPines board of directors determines in good faith that such acquisition proposal constitutes a superior proposal; (iv) the TorreyPines board of directors determines in good faith, after taking into account such matters as it deems relevant following consultation with of TorreyPines outside legal counsel, that, in light of such superior proposal, the failure to withdraw or modify the TorreyPines board recommendation is reasonably likely to result in a breach of such board of directors fiduciary obligations under applicable law; and (v) none of TorreyPines nor any of its representatives shall have violated any of the solicitation restrictions on it as described above.

Raptors Stockholders Meeting; Obligation of the Raptor Board of Directors

Raptor has agreed to take all action necessary to call, give notice of and, as promptly as practicable after the registration statement (of which this joint proxy statement/prospectus is a part) is declared effective under the Securities Act, hold a meeting of its stockholders to vote on the adoption of the merger agreement. Raptor s obligation to call, give notice of and hold a stockholders meeting shall not be limited or otherwise affected by the commencement, public proposal, public disclosure or communication of any acquisition proposal, or by any withdrawal or modification of the Raptor board recommendation, as discussed below.

Raptor has also agreed to include a statement in this joint proxy statement/prospectus to the effect that the Raptor board of directors unanimously recommends that Raptor s stockholders vote to adopt the merger agreement at Raptor s stockholders meeting, such recommendation being referred to as the Raptor board recommendation. The merger agreement provides that the Raptor board recommendation may not be withdrawn

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or modified in a manner adverse to TorreyPines, and no resolution by the Raptor board of directors or any committee thereof to withdraw or modify the Raptor board recommendation in a manner adverse to TorreyPines may be adopted or proposed, except as provided below.

The merger agreement provides that the Raptor board of directors is entitled to withdraw or modify the Raptor board recommendation in a manner adverse to TorreyPines under the following conditions: (i) if an acquisition proposal is made to Raptor and is not withdrawn; (ii) Raptor provides TorreyPines with at least three business days prior notice of any meeting of the Raptor board of directors at which such board will consider and determine whether such acquisition proposal is a superior proposal; (iii) the Raptor board of directors determines in good faith that such acquisition proposal constitutes a superior proposal; (iv) the Raptor board of directors determines in good faith, after taking into account the advice of Raptor's outside legal counsel, that, in light of such superior proposal, the failure to withdraw or modify the Raptor board recommendation is reasonably likely to result in a breach of such board of directors' fiduciary obligations under applicable law; and (v) none of Raptor nor any of its representatives shall have violated any of the solicitation restrictions on it as described above.

Covenants; Conduct of Business Pending the Merger

TorreyPines agreed that it will conduct its business in compliance with all applicable laws, regulations, and certain contracts, to keep in full force its insurance policies, and to take other agreed-upon actions. TorreyPines also agreed that, subject to certain limited exceptions, without the consent of Raptor, it would not, during the period prior to closing of the merger:

declare, set aside or pay any dividends on, any of its capital stock or other equity or voting interests;

split, combine or reclassify any of its capital stock;

purchase, redeem or otherwise acquire any shares of capital stock or any options, warrants, calls or rights to acquire any such shares;

issue, deliver, sell, pledge or otherwise encumber any shares of its capital stock, any other equity or voting interests or any securities convertible into, or exchangeable for, or any options, warrants, calls or rights to acquire or receive, any such shares, interests or securities (excluding other than the issuance of shares upon the exercise of outstanding options or warrants);

amend or propose to amend any of its certificate of incorporation or bylaws or effect or become a party to any merger, consolidation, share exchange, business combination, recapitalization or similar transaction;

acquire any business or any corporation, partnership, limited liability company, joint venture, association or division thereof;

acquire any material assets or a license therefor other than in the ordinary course of business consistent with past practices or incur any capital expenditures, except pursuant to existing contracts or that, in the aggregate, would not exceed \$25,000 during any fiscal quarter;

enter into any lease or sublease of real property (whether as a lessor, sublessor, lessee or sublessee);

sell, grant a license in, mortgage or otherwise encumber or dispose of any of its material properties or assets;

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repurchase, prepay or incur any indebtedness or guarantee any indebtedness of another person or issue or sell any debt securities or options, warrants, calls or other rights to acquire any of its debt securities, guarantee any debt securities of another person, or enter into any keep well or other agreement to maintain any financial statement condition of another person;

make any loans, advances or capital contributions to, or investments in, any other person, other than TorreyPines or any of its subsidiaries and except for customary travel advances to employees;

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pay, discharge, settle or satisfy any material claims, liabilities or obligations (excluding payments, discharges, settlements or satisfaction as required by their terms as in effect on the date of the merger agreement of claims, liabilities or obligations reflected or reserved against in the most recent audited financial statements (or the notes thereto) of TorreyPines included in its SEC reports (other than settlements or discharges of any legal proceedings);

waive, release, grant or transfer any right of material value other than in the ordinary course of business consistent with past practices;

commence any legal proceeding;

enter into any material contract except in the ordinary course of business consistent with past practices;

change or terminate any contract to which TorreyPines or any of its subsidiaries is a party, or waive, release or assign any rights or claims thereunder;

adopt or enter into any collective bargaining agreement or other labor union contract applicable to the employees of TorreyPines or any of its subsidiaries;

hire any new employee or promote any employee or engage any independent contractor;

increase in any manner the compensation or benefits of any employee, officer, director or independent contractor of TorreyPines or any of its subsidiaries;

except as required to comply with applicable laws or any contract or benefit plan in effect on the date of the merger agreement, (i) pay to any employee, officer, director or independent contractor of TorreyPines or any of its subsidiaries any benefit not provided for under any such contract or benefit plan, (ii) grant any awards under any benefit plan, (iii) take any action to fund or in any other way secure the payment of compensation or benefits under any contract or benefit plan, (iv) take any action to accelerate the vesting or payment of any compensation or benefit under any contract or benefit plan, (v) adopt, enter into or amend any benefit plan or (vi) make any material determination under any benefit plan;

(i) fail to accrue a reserve in its books and records and financial statements in accordance with past practice for taxes payable by TorreyPines or any of its subsidiaries, (ii) settle or compromise any legal proceeding relating to any material tax or (iii) revoke any material tax election;

except as required by GAAP or applicable laws, change its fiscal year, revalue any of its material assets or make any changes in financial or tax accounting methods, principles or practices;

take any action (or omit to take any action) if such action (or omission) would, or would be reasonably likely to result in any representation and warranty of TorreyPines or any of its subsidiaries set forth in this Agreement becoming untrue in any material respect;

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take any action with respect to the dissolution, liquidation or winding up of TorreyPines or any of its subsidiaries; or

authorize any of, or commit, resolve or agree to take any of, the foregoing actions.

Raptor agreed that it will conduct its business in the ordinary course consistent with past practices and in compliance with all applicable laws, regulations and certain contracts, and to take other agreed-upon actions. Raptor also agreed that, subject to certain exceptions, without the consent of TorreyPines, it would not, during the period prior to the closing of the merger:

take any action (or omit to take any action) if such action (or omission) would, or would be reasonably likely to result in any representation and warranty of Raptor or any of its subsidiaries set forth in this Agreement becoming untrue in any material respect;
or

authorize any of, or commit, resolve or agree to take any of, the foregoing actions.

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Notwithstanding the foregoing, pursuant to the merger agreement, Raptor may, without the consent of TorreyPines, (i) issue securities at any time for capital-raising purposes and (ii) enter into any transactions involving a licensing, partnership, joint or collaborative venture, co-development or co-promotion agreement or similar arrangement involving one or more of Raptor's product candidates or potential product candidates or the acquisition of assets, a business or a product line so long as such transactions, individually or in the aggregate, do not result in a change of control transaction (as defined in the merger agreement and as set forth above).

Other Agreements

Each of TorreyPines and Raptor has agreed to use its commercially reasonable efforts to:

file or otherwise submit all notices and other documents required to be filed or made with respect to the merger;

take all actions necessary to complete the merger;

coordinate with the other in preparing and exchanging information and promptly provide the other with copies of all filings or submissions made in connection with the merger;

obtain all consents, approvals or waivers required in connection with the transactions contemplated by the merger agreement;

oppose or lift any injunction prohibiting the merger; and

consult and agree with each other about any public statement either will make concerning the merger, subject to certain exceptions. TorreyPines and Raptor also agreed that:

TorreyPines will file an initial listing application for the TorreyPines common stock to be issued in the merger on the NASDAQ Capital Market or, to the extent agreed by TorreyPines and Raptor, the NASDAQ Global Market, and use its commercially reasonable efforts to cause such initial listing application to be approved for listing (subject to issuance) prior to the effective time of the merger;

TorreyPines and Raptor shall use commercially reasonable efforts to cause the merger to qualify as a reorganization under Section 368(a) of the U.S. internal revenue code;

TorreyPines shall use commercially reasonable efforts to obtain and deliver the resignation of each officer and director of TorreyPines and its subsidiaries;

Raptor, TorreyPines and merger sub shall take all such commercially reasonable steps as may be required to cause the transactions contemplated by the merger agreement and any other dispositions of equity securities of Raptor (including derivative securities) or acquisitions of equity securities of TorreyPines in connection with the merger by each individual who (a) is a director or officer of Raptor, or (b) at the effective time of the merger will become a director or officer of TorreyPines, to be exempt under Rule 16b-3 promulgated under the Exchange Act.

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TorreyPines shall, if requested to do so by Raptor, terminate all of TorreyPines defined contribution 401(k) plans;

TorreyPines shall have taken or caused to be taken all necessary corporate action such that immediately after the effective time of the merger the board of directors and the officers, respectively, of TorreyPines shall be composed of certain of the members of the board of directors and the officers, respectively, of Raptor.

TorreyPines shall cause to be filed with the Secretary of State of the State of Delaware an amendment to its certificate of incorporation effecting the reverse stock split and changing the name of TorreyPines to Raptor Pharmaceutical Corp.

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Termination

The merger agreement may be terminated at any time before the completion of the merger, whether before or after the required TorreyPines and Raptor stockholder approvals to complete the merger have been obtained, as set forth below:

by mutual written consent of TorreyPines and Raptor duly authorized by the boards of directors of TorreyPines and Raptor;

by either TorreyPines or Raptor if the merger shall not have been consummated by November 30, 2009 (unless the failure to consummate the merger is attributable to a failure on the part of the party seeking to terminate the merger agreement to perform any material obligation required to be performed by such party at or prior to the effective time of the merger);

by either TorreyPines or Raptor if a court of competent jurisdiction or other governmental body shall have issued a final and nonappealable order, decree or ruling, or shall have taken any other action, having the effect of permanently restraining, enjoining or otherwise prohibiting the merger;

by either TorreyPines or Raptor if the stockholders of TorreyPines have not approved the issuance of shares of TorreyPines common stock to be issued in the merger and the amendment to the certificate of incorporation of TorreyPines effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. at the TorreyPines annual stockholders meeting (including any adjournments and postponements thereof), but such party shall not be permitted to terminate the merger agreement pursuant to this provision if the failure to obtain such stockholder approval is attributable to a failure on the part of such party to perform any material obligation required to be performed by such party at or prior to the effective time of the merger;

by either TorreyPines or Raptor if the stockholders of Raptor have not approved and adopted the merger agreement at the Raptor annual stockholders meeting (including any adjournments and postponements thereof), but such party shall not be permitted to terminate the merger agreement pursuant to this provision if the failure to obtain such stockholder approval is attributable to a failure on the part of such party to perform any material obligation required to be performed by such party at or prior to the effective time of the merger;

by Raptor, at any time prior to the TorreyPines stockholders having voted their shares of TorreyPines common stock in favor of the issuance of the TorreyPines common stock to be issued in the merger, the amendment to the certificate of incorporation of TorreyPines effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. , if:

the board of directors of TorreyPines fails to recommend that TorreyPines stockholders vote to approve the issuance of the TorreyPines common stock to be issued in the merger, the amendment to the certificate of incorporation of TorreyPines effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. , or withdraws or modifies its recommendation in a manner adverse to Raptor;

TorreyPines shall have failed to include in this joint proxy statement/prospectus its board recommendation;

the board of directors of TorreyPines shall have failed to reaffirm, unanimously and without qualification, its recommendation, or shall have failed to publicly state, unanimously and without qualification, that it believes that the merger is in the best interests of TorreyPines stockholders, within five business days after Raptor requests in writing that such action be taken;

the board of directors of TorreyPines shall have approved, endorsed or recommended any acquisition proposal, as defined in the section titled, The Merger Agreement No Solicitation in this joint proxy statement/prospectus;

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TorreyPines or any of its subsidiaries (or representatives of any of them) shall have failed to comply with the non-solicitation provisions in the merger agreement, such provisions as discussed in the section titled, "The Merger Agreement - No Solicitation" in this joint proxy statement/prospectus;

a tender or exchange offer relating to securities of TorreyPines shall have been commenced and TorreyPines shall not have released to its stockholders, within 10 business days after the commencement of such tender or exchange offer, a statement disclosing that the board of directors recommends rejection of such tender or exchange offer; or

an acquisition proposal shall have been publicly announced, and TorreyPines shall have failed to issue a press release announcing its opposition to such acquisition proposal within 10 business days after such acquisition proposal is announced (each of the above clauses is referred to as a TorreyPines triggering event); or

by TorreyPines, at any time prior to the Raptor stockholders having voted their shares of Raptor common stock in favor of the adoption of the merger agreement, if:

the board of directors of Raptor fails to recommend that Raptor's stockholders vote to approve the merger and adopt the merger agreement, or withdraws or modifies its recommendation in a manner adverse to TorreyPines;

Raptor shall have failed to include in this joint proxy statement/prospectus its board recommendation;

the board of directors of Raptor shall have failed to reaffirm, unanimously and without qualification, its recommendation, or shall have failed to publicly state, unanimously and without qualification, that it believes that the merger is in the best interests of Raptor's stockholders, within five business days after TorreyPines requests in writing that such action be taken;

the board of directors of Raptor shall have approved, endorsed or recommended any acquisition proposal, as defined in the section titled, "The Merger Agreement - No Solicitation" in this joint proxy statement/prospectus;

Raptor or any of its subsidiaries (or representatives of any of them) shall have failed to comply with the non-solicitation provisions in the merger agreement, such provisions as discussed in the section titled, "The Merger Agreement - No Solicitation" in this joint proxy statement/prospectus;

a tender or exchange offer relating to securities of Raptor shall have been commenced and Raptor shall not have released to its stockholders, within 10 business days after the commencement of such tender or exchange offer, a statement disclosing that the board of directors recommends rejection of such tender or exchange offer;

an acquisition proposal shall have been publicly announced, and Raptor shall have failed to issue a press release announcing its opposition to such acquisition proposal within 10 business days after such acquisition proposal is announced (each of the above clauses is referred to as a Raptor triggering event); or

by TorreyPines or Raptor, upon a breach of any representation, warranty, covenant or agreement on the part of the other, non-affiliated party, or if any representation or warranty of the other, non-affiliated party shall have become inaccurate, in either case such that the conditions to the closing of the merger would not be satisfied as of the time of such breach or as of the time such representation or warranty shall have become inaccurate, provided that if such inaccuracy or breach is curable, then the merger

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agreement will not terminate pursuant to this provision as a result of such particular breach or inaccuracy until the earlier of (i) the expiration of a thirty (30) day period commencing upon delivery of written notice from the non-breaching party to the other, non-affiliated party of such breach or inaccuracy and (ii) the other, non-affiliated, breaching party ceasing to exercise commercially reasonable efforts to cure such breach (if such breach has not been cured).

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Expenses and Reimbursements

TorreyPines must reimburse Raptor's expenses in the merger, up to a maximum of \$250,000, if:

the merger agreement is terminated because TorreyPines' stockholders do not approve the issuance of the TorreyPines common stock to be issued in the merger and the amendment to the certificate of incorporation of TorreyPines effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. and a bid acquisition proposal, as defined above in the section titled, The Merger Agreement No Solicitation, with respect to TorreyPines was publicly announced, disclosed or otherwise communicated to the board of directors of TorreyPines prior to the TorreyPines stockholders' annual meeting and TorreyPines enters into an agreement for, or consummates, an acquisition transaction within 6 months of the termination; or

the merger agreement is terminated by Raptor because of a TorreyPines triggering event.
Raptor must reimburse TorreyPines' expenses in the merger, up to a maximum of \$250,000, if:

the merger agreement is terminated because Raptor's stockholders do not adopt the merger agreement and an acquisition proposal, as defined above in the section titled, The Merger Agreement No Solicitation, with respect to Raptor was publicly announced, disclosed or otherwise communicated to the board of directors of Raptor prior to the Raptor stockholders' annual meeting and Raptor enters into an agreement for, or consummates, an acquisition transaction; or

the merger agreement is terminated by TorreyPines because of a Raptor triggering event.
The provisions in the merger agreement that obligate Raptor and TorreyPines to incur or reimburse expenses, as applicable, including those set forth above, survive the termination of the merger agreement.

Representations and Warranties

The merger agreement contains representations and warranties that TorreyPines and merger sub, on the one hand, and Raptor, on the other hand, have made to one another as of specific dates and solely for the benefit of each other. The assertions embodied in the representations and warranties are qualified by information in confidential disclosure schedules exchanged by the parties in connection with signing the merger agreement. While TorreyPines and Raptor do not believe that these disclosure schedules contain information required to be publicly disclosed under the applicable securities laws, other than information that has already been so disclosed, the disclosure schedules do contain information that modifies, qualifies and creates exceptions to the representations and warranties set forth in the attached merger agreement. Accordingly, you should not rely on the representations and warranties as current characterizations of factual information about TorreyPines, merger sub or Raptor, because they were made as of specific dates, may be intended merely as a risk allocation mechanism between TorreyPines, merger sub and Raptor and are modified by the disclosure schedules.

The merger agreement contains representations and warranties of TorreyPines, merger sub and Raptor customary for transactions of this type and relate to the following subject matters:

corporate organization, qualifications to do business and power and similar corporate matters;

subsidiaries;

capitalization;

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any conflicts or violations of legal requirements, charter documents or agreements, to which TorreyPines, Raptor or any of their respective subsidiaries is bound or otherwise is a party, as a result of the merger or the merger agreement;

financial statements and documents filed with the SEC and the accuracy of information contained in those documents;

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disclosure controls and procedures;

any undisclosed liabilities;

filing of tax returns and payment of taxes;

intellectual property;

compliance with legal requirements and governmental authorizations;

litigation matters;

regulatory compliance;

absence of certain changes and events;

the validity of material contracts to which the parties or their subsidiaries are a party, any violation, default or breach to such contracts and the effect on such contracts of entering into and completing the transactions contemplated by the merger agreement;

authority to enter into the merger agreement and the related agreements and enforceability of such agreements against the parties;

approval by the boards of directors of the parties;

votes required for completion of the merger and approval of the proposals that will come before the TorreyPines and Raptor annual meetings;

the amendment of the TorreyPines stockholder rights agreement and the Raptor stockholder rights agreement; and

the information supplied by TorreyPines and Raptor, respectively, in this joint proxy statement/prospectus (and the related registration statement of which this is a part) not containing any untrue statement of a material fact or omitting to state a material fact required to be stated therein or necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading.

In addition, the merger agreement contains representations and warranties of TorreyPines and merger sub relating to the following subject matters:

title to, and sufficiency of, assets;

real property and leaseholds;

any brokerage or finder's fee or other fee or commission in connection with the merger;

employee benefits, labor relations and related matters;

any liens and encumbrances;

environmental matters;

insurance matters;

interests of officers and directors;

transactions with affiliates;

the trading of TorreyPines common stock on NASDAQ;

the projected spending estimate of TorreyPines; and

the valid issuance in the merger of the TorreyPines common stock to the Raptor stockholders.

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The representations and warranties are, in many respects, qualified by materiality and knowledge, and will not survive the merger, but their accuracy forms the basis of one of the conditions to the obligations of TorreyPines and Raptor to complete the merger.

Amendment

The merger agreement may be amended by the parties at any time, except that after the merger agreement has been adopted by the stockholders of TorreyPines or the stockholders of Raptor, no amendment which by law requires further approval by the stockholders of TorreyPines or Raptor, as the case may be, shall be made without such further approval.

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AGREEMENTS RELATED TO THE MERGER

Voting Agreements

In connection with the execution of the merger agreement, certain of Raptor's directors and officers, each of whom are Raptor stockholders, entered into voting agreements, which included irrevocable proxies, with each of TorreyPines and Raptor pursuant to which, among other things, each of such stockholders agreed, solely in his or her capacity as a stockholder, to vote all of his or her shares of Raptor capital stock entitled to vote in favor of the adoption of the merger agreement and any action in furtherance of the foregoing against any action or agreement that would result in a breach of the merger agreement by Raptor, against any proposal for any acquisition transaction, as defined in the merger agreement, other than the merger between Raptor and any third person other than TorreyPines and merger sub and against any change in a majority of the board of directors of Raptor. These Raptor stockholders also granted TorreyPines an irrevocable proxy to vote their respective shares in accordance with the voting agreement. These Raptor stockholders may vote their shares of Raptor capital stock on all other matters not referred to in such proxy.

As of July 27, 2009, the date of the merger agreement, the directors and officers of Raptor who entered into voting agreements collectively owned 7,412,500 shares of Raptor common stock, representing approximately 11% of the outstanding Raptor common stock. All of such stockholders who entered into such voting agreements are officers or directors of Raptor.

Under these voting agreements executed by such Raptor directors and officers, subject to certain exceptions, such stockholders also have agreed not to sell or transfer Raptor capital stock and options and warrants to purchase Raptor common stock held by them until the earlier of the termination of the merger agreement or the completion of the merger. To the extent that any such sale or transfer is permitted pursuant to the exceptions included in such voting agreements, each person to whom any shares of such capital stock are so sold or transferred must agree in writing to be bound by the terms and provisions of such voting agreement.

In addition, in connection with the execution of the merger agreement, TorreyPines' directors and officers, each of whom are TorreyPines stockholders, entered into voting agreements, which included irrevocable proxies, with each of Raptor and TorreyPines pursuant to which, among other things, each of such stockholders agreed, solely in his or her capacity as a stockholder, to vote all of his or her shares of TorreyPines capital stock entitled to vote in favor of the approval of the issuance of the shares of TorreyPines common stock in the merger, the amendment to TorreyPines' certificate of incorporation effecting the reverse stock split and the name change from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. and any action in furtherance of the foregoing and against any action or agreement that would result in a breach of the merger agreement by TorreyPines, against any proposal for any acquisition transaction, as defined in the merger agreement, other than the merger between TorreyPines and any third person other than Raptor and merger sub and against any change in a majority of the board of directors of TorreyPines. These TorreyPines stockholders also granted Raptor an irrevocable proxy to vote their respective shares in accordance with the voting agreement. These TorreyPines stockholders may vote their shares of TorreyPines common stock on all other matters not referred to in such proxy. As of July 27, 2009, the directors and officers of TorreyPines, who entered into voting agreements, collectively owned shares of TorreyPines common stock representing approximately 1% of the outstanding TorreyPines common stock.

Under these voting agreements executed by such TorreyPines directors and officers, subject to certain exceptions, such stockholders also have agreed not to sell or transfer TorreyPines common stock and options and warrants to purchase TorreyPines common stock held by them until the earlier of the termination of the merger agreement or the completion of the merger. To the extent that any such sale or transfer is permitted pursuant to the exceptions included in such voting agreements, each person to whom any shares of such capital stock are so sold or transferred must agree in writing to be bound by the terms and provisions of such voting agreements.

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MATTERS BEING SUBMITTED TO A VOTE OF TORREYPINES STOCKHOLDERS

TorreyPines Proposal No. 1: Approval of the Issuance of Common Stock in the Merger and the Resulting Change in Control

At the TorreyPines annual meeting, TorreyPines stockholders will be asked to approve (a) the issuance of TorreyPines common stock pursuant to the merger agreement and (b) the change in control of TorreyPines resulting from the issuance of TorreyPines common stock in the merger. Immediately following the merger, Raptor stockholders will hold 95% of the outstanding shares of common stock of the combined company, with existing TorreyPines stockholders holding 5% of the shares of common stock of the combined company, in each case without taking into account any of the other shares of TorreyPines common stock that may be issuable pursuant to outstanding options or warrants to acquire TorreyPines common stock outstanding as of the signing of the merger agreement or any other shares of Raptor common stock that may be issuable pursuant to outstanding options or warrants, other than the 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options included in the calculation of the exchange ratio.

The terms of, reasons for and other aspects of the merger agreement, the merger and the issuance of TorreyPines common stock pursuant to the merger agreement are described in detail in the other sections in this joint proxy statement/prospectus.

Required Vote

The affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting is required for approval of TorreyPines Proposal No. 1.

THE TORREYPINES BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT TORREYPINES STOCKHOLDERS VOTE FOR TORREYPINES PROPOSAL NO. 1 TO APPROVE THE ISSUANCE OF TORREYPINES COMMON STOCK PURSUANT TO THE MERGER AGREEMENT AND THE RESULTING CHANGE IN CONTROL OF TORREYPINES.

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TorreyPines Proposal No. 2: Approval of Amendment to TorreyPines Certificate of Incorporation Effecting the Reverse Stock Split

General

At the TorreyPines annual meeting, TorreyPines stockholders will be asked to approve an amendment to TorreyPines certificate of incorporation effecting a reverse stock split of the issued shares of TorreyPines common stock. Upon the effectiveness of the amendment to TorreyPines certificate of incorporation effecting the reverse stock split, or the split effective time, the issued shares of TorreyPines common stock immediately prior to the split effective time will be combined into a smaller number of shares. Depending on the ratio for the reverse stock split, each ten, eleven, twelve, thirteen, fourteen, fifteen, seventeen, twenty, twenty-five, thirty, thirty-five, forty, forty-five, fifty, fifty-five, sixty or seventy shares, of existing TorreyPines common stock held by a TorreyPines stockholder immediately prior to the split effective time will be converted into one new share of TorreyPines common stock. The number of shares of common stock issued and outstanding will therefore be reduced, depending upon the reverse stock split ratio determined by the TorreyPines board of directors and approved by the Raptor board of directors. The amendment to the certificate of incorporation that is filed to effect the reverse stock split, if any, will include only the reverse split ratio determined by the boards of directors of TorreyPines and Raptor, respectively, that causes the combined company's stock price to be at least \$4.00 per share and which is determined to be in the best interests of the stockholders of TorreyPines and Raptor, respectively, and all of the other proposed amendments at different ratios will be abandoned. TorreyPines believes that leaving the ratio to the discretion of the TorreyPines board of directors (provided that it is one of the seventeen proposed ratios) will provide TorreyPines with the flexibility to implement the reverse stock split in a manner designed to maximize the anticipated benefits for its stockholders. The TorreyPines board of directors' decision will be based on a number of factors, including market conditions, existing and expected trading prices for TorreyPines common stock and the listing requirements of the NASDAQ Capital Market. Even if the stockholders approve the reverse stock split, TorreyPines reserves the right not to effect the reverse stock split if the TorreyPines board of directors does not deem it to be in the best interests of TorreyPines and its stockholders to effect the reverse stock split. The TorreyPines board of directors may determine to effect the reverse stock split, if it is approved by the stockholders, even if the other proposals to be acted upon at the meeting are not approved, including the issuance of shares of TorreyPines common stock pursuant to the merger agreement. If TorreyPines Proposal No. 2 is approved, the reverse stock split would become effective in connection with the closing of the merger. The exact split ratio will be publicly announced by TorreyPines.

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The following table provides estimates of the number of shares of TorreyPines common stock authorized, issued and outstanding, reserved for issuance and authorized but neither issued nor reserved for issuance at the following times: (i) prior to the reverse stock split and closing of the merger, (ii) assuming the minimum proposed reverse stock split of 10:1, but prior to closing of the merger, (iii) assuming the maximum proposed reverse stock split of 70:1, but prior to closing of the merger, (iv) assuming the minimum proposed reverse stock split of 10:1 and the closing of the merger, and (v) assuming the maximum proposed reverse stock split of 70:1 and the closing of the merger:

| | Number of Shares of Common Stock Authorized | Number of Shares Issued and Outstanding(1) | Number of Shares Reserved For Issuance(1) | Number of Shares Authorized but Neither Issued nor Reserved for Issuance(1) |
|---|--|--|--|--|
| Prior to the Reverse Stock Split and Closing of the Merger: | 150,000,000 | 15,999,058 | 5,274,682(2) | 128,726,260(2) |
| After Assumed 10:1 Reverse Stock Split but Prior to Closing of the Merger: | 150,000,000 | 1,599,906 | 527,468(3) | 147,872,626(3) |
| After Assumed 70:1 Reverse Stock Split but Prior to Closing of the Merger: | 150,000,000 | 228,558 | 75,353(4) | 149,696,089(4) |
| After Assumed 10:1 Reverse Stock Split and Issuance of Shares Following Closing of the Merger: | 150,000,000 | 31,998,116(5) | 5,156,230(7) | 112,845,654 |
| After Assumed 70:1 Reverse Stock Split and Issuance of Shares Following Closing of the Merger: | 150,000,000 | 4,571,159(6) | 736,605(8) | 144,692,236 |

- (1) These estimates assume 15,999,058 shares of TorreyPines common stock issued and outstanding immediately prior to the closing of the merger which was the number of shares issued and outstanding as of July 27, 2009.
- (2) Does not include an additional 303,982,102 shares of common stock reserved for issuance to Raptor stockholders in connection with the merger which would be subject to adjustment upon the completion of the reverse stock split.
- (3) Does not include an additional 30,398,210 shares of common stock reserved for issuance to Raptor stockholders in connection with the merger, as adjusted for the reverse stock split.
- (4) Does not include an additional 4,342,601 shares of common stock reserved for issuance to Raptor stockholders in connection with the merger, as adjusted for the reverse stock split.
- (5) This assumes 1,599,906 shares of TorreyPines common stock issued and outstanding immediately prior to the closing of the merger and 30,398,210 shares of TorreyPines common stock that Raptor stockholders will be entitled to receive in connection with the merger.
- (6) This assumes 228,558 shares of TorreyPines common stock issued and outstanding immediately prior to the closing of the merger and 4,342,601 shares of TorreyPines common stock that Raptor stockholders will be entitled to receive in connection with the merger.
- (7) This assumes 527,648 shares of TorreyPines common stock reserved for issuance for the exercise of options and warrants to purchase shares of TorreyPines common stock outstanding immediately prior to the closing of the merger and 4,628,762 shares of TorreyPines common stock reserved for issuance for the exercise of options and warrants to purchase shares of TorreyPines common stock that the holders of options and warrants to purchase shares of Raptor capital stock will be entitled to receive in connection with the merger.
- (8) This assumes 75,353 shares of TorreyPines common stock reserved for issuance for the exercise of options and warrants to purchase shares of TorreyPines common stock outstanding immediately prior to the closing of the merger and 661,251 shares of TorreyPines common stock reserved for issuance for the exercise of options and warrants to purchase shares of TorreyPines common stock that the holders of options and warrants to purchase shares of Raptor capital stock will be entitled to receive in connection with the merger.

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The form of the amendment to TorreyPines' certificate of incorporation to effect the reverse stock split, as more fully described below, will effect the reverse stock split but will not change the number of authorized shares of common stock or preferred stock, or the par value of TorreyPines common stock or preferred stock.

Purpose

The TorreyPines board of directors approved the proposal approving the certificate of amendment to TorreyPines' certificate of incorporation effecting the reverse stock split for the following reasons:

because the listing standards of the NASDAQ Capital Market will require TorreyPines to have, among other things, a \$4.00 per share minimum bid price upon the closing of the merger and because the listing of the TorreyPines common stock on the NASDAQ Capital Market is a condition to closing the merger, the reverse stock split may be necessary in order to consummate the merger;

the board of directors believes effecting the reverse stock split may be an effective means of avoiding a delisting of TorreyPines common stock from the NASDAQ Global Market or NASDAQ Capital Market, as applicable, in the future; and

the board of directors believes a higher stock price may help generate investor interest in TorreyPines and help TorreyPines attract and retain employees.

If the reverse stock split successfully increases the per share price of TorreyPines' common stock, TorreyPines' board of directors believes this increase may increase trading volume in TorreyPines' common stock and facilitate future financings by TorreyPines.

NASDAQ Requirements for Listing on the NASDAQ Capital Market

TorreyPines' common stock is quoted on the NASDAQ Global Market under the symbol TPTX. TorreyPines intends to file an initial listing application with NASDAQ to seek listing on the NASDAQ Capital Market upon the closing of the merger.

According to NASDAQ rules, an issuer must, in a case such as this, apply for initial inclusion following a transaction whereby the issuer combines with an entity that is not listed on the NASDAQ Stock Market, resulting in a change of control of the issuer and potentially allowing the entity that is not listed on the NASDAQ Stock Market to obtain a NASDAQ listing. Accordingly, the listing standards of the NASDAQ Capital Market will require TorreyPines to have, among other things, a \$4.00 per share minimum bid price upon the closing of the merger. Therefore, the reverse stock split will be necessary in order to consummate the merger, although there is no assurance that the reverse stock split will be sufficient from The NASDAQ Stock Market LLC's perspective in order to approve the listing application.

Additionally, TorreyPines' board of directors believes that achieving a listing on the NASDAQ Capital Market may provide a broader market for the combined company's common stock and facilitate the use of TorreyPines' common stock in financing and other transactions. TorreyPines' board of directors unanimously approved the reverse stock split partly as a means of maintaining the share price of TorreyPines' common stock following the merger above \$4.00 per share.

One of the effects of the reverse stock split will be to effectively increase the proportion of authorized shares which are unissued relative to those which are issued. This could result in the combined company's management being able to issue more shares without further stockholder approval. For example, if TorreyPines effects the reverse stock split at a 10:1 ratio, its authorized but unissued shares immediately prior to the closing of the merger would be approximately 147,872,626 compared to shares issued of approximately 1,599,906. If TorreyPines effects the reverse stock split at a 70:1 ratio, its authorized but unissued shares immediately prior to the closing of the merger would be approximately 149,771,442 compared to shares issued of approximately 228,558. TorreyPines currently has no plans to issue shares, other than in connection with the merger, and to

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satisfy obligations under TorreyPines warrants and employee stock options from time to time as these warrants and options are exercised. The reverse stock split will not affect the number of authorized shares of TorreyPines common stock which will continue to be 150,000,000.

Potential Increased Investor Interest

On July 27, 2009, TorreyPines common stock closed at \$0.09 per share. TorreyPines common stock may not appeal to brokerage firms that are reluctant to recommend lower priced securities to their clients. Investors may also be dissuaded from purchasing lower priced stocks because the brokerage commissions, as a percentage of the total transaction, tend to be higher for such stocks. Moreover, the analysts at many brokerage firms do not monitor the trading activity or otherwise provide coverage of lower priced stocks. Also, the TorreyPines board of directors believes that most investment funds are reluctant to invest in lower priced stocks.

There are risks associated with the reverse stock split, including that the reverse stock split may not result in an increase in the per share price of TorreyPines common stock.

TorreyPines cannot predict whether the reverse stock split will increase the market price for TorreyPines common stock. The history of similar stock split combinations for companies in like circumstances is varied. There is no assurance that:

the market price per share of TorreyPines common stock after the reverse stock split will rise in proportion to the reduction in the number of shares of TorreyPines common stock outstanding before the reverse stock split;

the reverse stock split will result in a per share price that will attract brokers and investors who do not trade in lower priced stocks;

the reverse stock split will result in a per share price that will increase TorreyPines ability to attract and retain employees; or

the market price per share will either exceed or remain in excess of the \$1.00 minimum bid price as required by NASDAQ for continued listing, or that TorreyPines will otherwise meet the requirements of NASDAQ for inclusion for trading on the NASDAQ Capital Market.

The market price of TorreyPines common stock will also be based on TorreyPines performance and other factors, some of which are unrelated to the number of shares outstanding. If the reverse stock split is effected and the market price of TorreyPines common stock declines, the percentage decline as an absolute number and as a percentage of TorreyPines overall market capitalization may be greater than would occur in the absence of a reverse stock split. Furthermore, the liquidity of TorreyPines common stock could be adversely affected by the reduced number of shares that would be outstanding after the reverse stock split.

Principal Effects of the Reverse Stock Split

The form of the proposed amendment to TorreyPines certificate of incorporation effecting the reverse stock split is set forth in *Annex C* to this joint proxy statement/prospectus. The attached amendment also reflects the change of TorreyPines corporate name as described in TorreyPines Proposal No. 3.

The reverse stock split will be effected simultaneously for all outstanding shares of TorreyPines common stock. The reverse stock split will affect all of TorreyPines stockholders uniformly and will not affect any stockholder's percentage ownership interests in TorreyPines, except to the extent that the reverse stock split results in any of TorreyPines stockholders owning a fractional share. Given the variations in the proposed reverse split ratios and the significant number of shares of TorreyPines common stock to be issued in the merger, it is possible that a significant number of TorreyPines stockholders will own a fractional share of TorreyPines common stock following the merger. Such stockholders will only be entitled to receive cash for such fractional

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shares of TorreyPines common stock as described below under *Cash Payment in Lieu of Fractional Shares*, and the ownership of a fractional interest will not give the holder thereof any voting, dividend, or other rights except to receive payment therefor as described herein. Common stock issued pursuant to the reverse stock split will remain fully paid and nonassessable. The reverse stock split will not affect TorreyPines continuing to be subject to the periodic reporting requirements of the Exchange Act.

If the reverse stock split is implemented, it will increase the number of TorreyPines stockholders who own odd lots of fewer than 100 shares of TorreyPines common stock. Brokerage commission and other costs of transactions in odd lots are generally higher than the costs of transactions for more than 100 shares of common stock.

Procedure for Effecting Reverse Stock Split and Exchange of Stock Certificates

If TorreyPines stockholders approve the amendment to TorreyPines certificate of incorporation effecting the reverse stock split, and if TorreyPines board of directors still believes that a reverse stock split is in the best interests of TorreyPines and its stockholders, the TorreyPines board will determine the ratio of the reverse stock split to be implemented and publicly announce such ratio. TorreyPines will file the certificate of amendment with the Secretary of State of the State of Delaware at such time as TorreyPines board of directors has determined to be the appropriate split effective time. The TorreyPines board of directors may delay effecting the reverse stock split without resoliciting stockholder approval. Beginning at the split effective time, each certificate representing pre-split shares will be deemed for all corporate purposes to evidence ownership of post-split shares.

As soon as practicable after the split effective time, stockholders will be notified that the reverse stock split and/or corporate name change have been effected. TorreyPines expects that Raptor's transfer agent will act as exchange agent for purposes of implementing the exchange of stock certificates. Holders of pre-split shares will be asked to surrender to the exchange agent certificates representing pre-split shares in exchange for certificates representing post-split shares in accordance with the procedures to be set forth in a letter of transmittal to be sent by TorreyPines. In the event that TorreyPines Proposal No. 3 is approved by TorreyPines stockholders, the certificates reflecting the post-split shares will also reflect the change of TorreyPines corporate name to Raptor Pharmaceutical Corp. No new certificates will be issued to a stockholder until such stockholder has surrendered such stockholder's outstanding certificate(s) together with the properly completed and executed letter of transmittal to the exchange agent. Any pre-split shares submitted for transfer, whether pursuant to a sale or other disposition, or otherwise, will automatically be exchanged for post-split shares. **Stockholders should not destroy any stock certificate(s) and should not submit any certificate(s) unless and until requested to do so.**

Cash Payment in Lieu of Fractional Shares

No fractional shares will be issued in connection with the reverse stock split. Stockholders of record who otherwise would be entitled to receive fractional shares because they hold a number of pre-split shares not evenly divisible by the number of pre-split shares for which each post-split share is to be reclassified, will be entitled, upon surrender to the exchange agent of certificates representing such shares, to a cash payment in lieu thereof at a price equal to the fraction to which the stockholder would otherwise be entitled multiplied by the closing price of the common stock on the NASDAQ Global Market on the date immediately preceding the split effective time. The ownership of a fractional interest will not give the holder thereof any voting, dividend, or other rights except to receive payment therefor as described herein. Given the variations in the proposed reverse split ratios and the significant number of shares of TorreyPines common stock to be issued in the merger, it is possible that a significant number of TorreyPines stockholders will own a fractional share of TorreyPines common stock following the merger.

By approving the certificate of amendment to TorreyPines certificate of incorporation effecting the reverse stock split, stockholders will be approving the combination of ten, eleven, twelve, thirteen, fourteen, fifteen, seventeen, twenty, twenty-five, thirty, thirty-five, forty, forty-five, fifty, fifty-five, sixty or seventy shares, of existing TorreyPines common stock into one new share of TorreyPines common stock. The number of shares of

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common stock issued and outstanding will therefore be reduced, depending upon the reverse stock split ratio determined by the TorreyPines board of directors and approved by the Raptor board of directors. The amendment to the restated certificate of incorporation that is filed to effect the reverse stock split, if any, will include only the reverse split ratio determined by the boards of directors of TorreyPines and Raptor, respectively, that causes the combined company's stock price to be at least \$4.00 per share and which is determined to be in the best interests of the stockholders of TorreyPines and Raptor, respectively, and all of the other proposed amendments at different ratios will be abandoned.

Stockholders should be aware that, under the escheat laws of the various jurisdictions where stockholders reside, where TorreyPines is domiciled, and where the funds will be deposited, sums due for fractional interests that are not timely claimed after the effective date of the reverse stock split may be required to be paid to the designated agent for each such jurisdiction, unless correspondence has been received by TorreyPines or the exchange agent concerning ownership of such funds within the time permitted in such jurisdiction. Thereafter, stockholders otherwise entitled to receive such funds will have to seek to obtain them directly from the state to which they were paid.

Accounting Matters

The reverse stock split will not affect the stockholders' equity on TorreyPines' balance sheet. However, because the par value of TorreyPines common stock will remain unchanged on the effective date of the split, the components that make up the common stock capital account will change by offsetting amounts. Depending on the size of the reverse stock split the TorreyPines board of directors decides to implement, the stated capital component will be reduced to an amount between \$1,600 and \$229 from its present amount, and the additional paid-in capital component will be increased with the amount by which the stated capital is reduced. The per share net income or loss and net book value of TorreyPines will be increased because there will be fewer shares of TorreyPines common stock outstanding. Prior periods' per share amounts will be restated to reflect the reverse stock split.

Potential Anti-Takeover Effect

Although the increased proportion of unissued authorized shares to issued shares could, under certain circumstances, have an anti-takeover effect, for example, by permitting issuances that would dilute the stock ownership of a person seeking to effect a change in the composition of TorreyPines' board of directors or contemplating a tender offer or other transaction for the combination of TorreyPines with another company, the reverse stock split proposal is not being proposed in response to any effort of which TorreyPines is aware to accumulate shares of TorreyPines common stock or obtain control of TorreyPines, other than in connection with the merger with Raptor, nor is it part of a plan by management to recommend a series of similar amendments to TorreyPines' board of directors and stockholders. Other than the proposals being submitted to TorreyPines' stockholders for their consideration at the TorreyPines annual meeting, TorreyPines' board of directors does not currently contemplate recommending the adoption of any other actions that could be construed to affect the ability of third parties to take over or change control of TorreyPines.

No Appraisal rights

Under the DGCL, TorreyPines' stockholders are not entitled to appraisal rights with respect to the reverse stock split, and TorreyPines will not independently provide stockholders with any such right.

Material United States Federal Income Tax Consequences of the Reverse Stock Split

The following discussion summarizes the material United States federal income tax consequences of the reverse stock split that are expected to apply generally to holders of TorreyPines common stock. This summary is based upon current provisions of the Code, existing Treasury Regulations and current administrative rulings and court decisions, all of which are subject to change and to differing interpretations, possibly with retroactive effect.

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This summary only applies to a holder of TorreyPines common that is a U.S. person, defined to include:

a citizen or resident of the United States;

a corporation created or organized in or under the laws of the United States, or any political subdivision thereof (including the District of Columbia);

an estate the income of which is subject to United States federal income taxation regardless of its source;

a trust if either:

a court within the United States is able to exercise primary supervision over the administration of such trust and one or more United States persons have the authority to control all substantial decisions of such trust; or

the trust has a valid election in effect to be treated as a United States person for United States federal income tax purposes; and

any other person or entity that is treated for United States federal income tax purposes as if it were one of the foregoing.

Any holder of TorreyPines common stock other than a U.S. person as so defined is, for purposes of this discussion, a non-U.S. person. If a partnership holds TorreyPines common stock, the tax treatment of a partner will generally depend on the status of the partner and the activities of the partnership. If you are a partner of a partnership holding TorreyPines common stock, you should consult your tax advisor.

This summary assumes that holders of TorreyPines common stock hold their shares of pre-split and post-split TorreyPines common stock as capital assets within the meaning of Section 1221 of the Code (generally, property held for investment). No attempt has been made to comment on all United States federal income tax consequences of the reverse stock split that may be relevant to particular holders, including holders:

who are subject to special treatment under United States federal income tax rules such as dealers in securities, financial institutions, non-U.S. persons, mutual funds, regulated investment companies, real estate investment trusts, insurance companies, or tax-exempt entities;

who are subject to the alternative minimum tax provisions of the Code;

who acquired their shares in connection with stock option or stock purchase plans or in other compensatory transactions;

who hold their shares as qualified small business stock within the meaning of Section 1202 of the Code; or

who hold their shares as part of an integrated investment such as a hedge or as part of a hedging, straddle or other risk reduction strategy.

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In addition, the following discussion does not address the tax consequences of the reverse stock split under state, local and foreign tax laws. For example, the state and local tax consequences of the reverse stock split may vary significantly as to each stockholder, depending upon the state in which such stockholder resides. Furthermore, the following discussion does not address any of the tax consequences of transactions effectuated before, after or at the same time as the reverse stock split, whether or not they are in connection with the reverse stock split. No ruling from the Internal Revenue Service, or IRS, has been or will be requested in connection with the reverse stock split.

Accordingly, holders of TorreyPines common stock are advised and expected to consult their own tax advisers regarding the federal income tax consequences of the reverse stock split in light of their personal circumstances and the consequences of the reverse stock split under state, local and foreign tax laws.

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Stockholders Who Receive Post-Split Shares

Holders of TorreyPines common stock will not recognize any gain or loss or dividend income upon the exchange of pre-split shares for post-split shares pursuant to the reverse stock split, other than with respect to cash received in lieu of fractional shares of TorreyPines common stock.

The aggregate tax basis of the post-split shares of TorreyPines common stock received in the reverse stock split, including any fraction of a post-split share deemed to have been received, will be equal to the aggregate tax basis of the pre-split shares surrendered in exchange for such post-split shares, decreased by the amount of any tax basis allocable to any fractional share interest in TorreyPines common stock for which cash is received. The holding period of the post-split shares will include the holding period of the pre-split shares surrendered in exchange therefor.

Generally, cash payments received by holders of TorreyPines common stock upon redemption of their fractional shares will be recognized as gain or loss equal to the difference, if any, between such stockholder's basis in the fractional share and the amount of cash received. Gain, if any, realized by such stockholders on the transaction will be recognized in an amount not in excess of the cash received. Recognized gain will be taxed either as a dividend to the extent of the stockholder's ratable share of TorreyPines' earnings and profits, if any (as that term is used in Section 316 of Code) or as capital gain. TorreyPines has neither current nor accumulated earnings and profits and accordingly no portion of any gain recognized by a TorreyPines stockholder is expected to be treated as a dividend.

In the case of capital gain or loss recognized in respect of a fractional share, such gain or loss will be capital gain or loss, and generally will constitute long-term capital gain or loss if the stockholder's holding period in the shares surrendered is more than one year as of the reverse stock split. Net capital gain (*i.e.*, the excess of net long-term capital gain over net short-term capital loss) will be subject to tax at reduced rates for non-corporate stockholders who receive cash. The deductibility of capital losses is subject to various limitations for corporate and non-corporate holders.

For purposes of the above discussion of the bases and holding periods for shares of TorreyPines common stock, stockholders who acquired different blocks of TorreyPines common stock at different times for different prices must calculate their gains and losses and holding periods separately for each identifiable block of such stock surrendered in the reverse stock split.

Stockholders Who Receive Only Cash

A holder of TorreyPines common stock who receives only cash in the reverse stock split (*i.e.*, a stockholder that owns fewer than the number of shares of pre-split common stock for which one share of TorreyPines common stock will be issued in the reverse stock split) will be treated as having such shares redeemed in a taxable transaction governed by Section 302 of the Code. Because TorreyPines has neither current nor accumulated earnings and profits the stockholder will recognize gain or loss equal to the difference between the cash payment and the stockholder's tax basis for the redeemed shares.

Backup Withholding

TorreyPines is required to furnish to the record holders of TorreyPines common stock, other than corporations and other exempt holders, and to the IRS, information with respect to dividends paid on the TorreyPines common stock.

Certain non-corporate holders of TorreyPines common stock may be subject to backup withholding with respect to proceeds received from the disposition of shares of TorreyPines common stock. Backup withholding will not apply, however, to a holder of TorreyPines common stock who (1) furnishes a correct taxpayer identification number and certifies that the holder of TorreyPines common stock is not subject to backup

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withholding on IRS Form W-9 or a substantially similar form, (2) provides a certification of foreign status on an appropriate Form W-8 or successor form or (3) is otherwise exempt from backup withholding. If a holder of TorreyPines common stock provides an incorrect taxpayer identification number on IRS Form W-9 or a substantially similar form, such stockholder may be subject to penalties imposed by the IRS. Amounts withheld, if any, are generally not an additional tax and may be refunded or credited against the federal income tax liability of the holders of TorreyPines common stock, provided that the holder of TorreyPines common stock timely furnishes the required information to the IRS.

THE PRECEDING DISCUSSION IS INTENDED ONLY AS A SUMMARY OF CERTAIN UNITED STATES FEDERAL INCOME TAX CONSEQUENCES OF THE REVERSE STOCK SPLIT AND DOES NOT PURPORT TO BE A COMPLETE ANALYSIS OR DISCUSSION OF ALL OF THE REVERSE STOCK SPLIT'S POTENTIAL TAX EFFECTS. HOLDERS OF TORREYPINES COMMON STOCK ARE URGED TO CONSULT THEIR OWN TAX ADVISORS AS TO THE SPECIFIC TAX CONSEQUENCES TO THEM OF THE REVERSE STOCK SPLIT AND THE APPLICABILITY AND EFFECT OF FEDERAL, STATE, LOCAL AND OTHER APPLICABLE TAX LAWS.

Vote Required; Recommendation of Board of Directors

The affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power outstanding on the record date for the TorreyPines annual meeting is required to approve the certificate of amendment to TorreyPines' certificate of incorporation effecting a reverse stock split of TorreyPines common stock, pursuant to which each ten, eleven, twelve, thirteen, fourteen, fifteen, seventeen, twenty, twenty-five, thirty, thirty-five, forty, forty-five, fifty, fifty-five, sixty or seventy shares, of existing TorreyPines common stock into one new share of TorreyPines common stock. The number of shares of common stock issued and outstanding will therefore be reduced, depending upon the reverse stock split ratio determined by the TorreyPines board of directors and approved by the Raptor board of directors. The amendment to the restated certificate of incorporation that is filed to effect the reverse stock split, if any, will include only the reverse split ratio determined by the boards of directors of TorreyPines and Raptor, respectively, that causes the combined company's stock price to be at least \$4.00 per share and which is determined to be in the best interests of the stockholders of TorreyPines and Raptor, respectively, and all of the other proposed amendments at different ratios will be abandoned.

THE TORREYPINES BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT TORREYPINES STOCKHOLDERS VOTE FOR TORREYPINES PROPOSAL NO. 2 TO AMEND TORREYPINES' CERTIFICATE OF INCORPORATION EFFECTING THE REVERSE STOCK SPLIT.

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TorreyPines Proposal No. 3: Approval of Name Change

At the TorreyPines annual meeting, holders of TorreyPines stock will be asked to approve the amendment to TorreyPines certificate of incorporation to change the name of the corporation from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. upon consummation of the merger. The primary reason for the corporate name change is that management believes this will allow for brand recognition of Raptor's product candidates and product candidate pipeline following the consummation of the merger. TorreyPines management believes that the current name will no longer accurately reflect the business of the combined company and the mission of the combined company subsequent to the consummation of the merger.

Insofar as TorreyPines business will not include Raptor's business until the merger has been completed, the proposed name change and the amendment of TorreyPines certificate of incorporation, even if approved by the TorreyPines stockholders at the TorreyPines annual meeting, will only be filed with the office of the Secretary of State of the State of Delaware, and will therefore only become effective, if the merger is consummated.

The affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power outstanding on the record date for the TorreyPines annual meeting is required to approve the amendment to TorreyPines certificate of incorporation to change the name TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp.

THE TORREYPINES BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT TORREYPINES STOCKHOLDERS VOTE FOR TORREYPINES PROPOSAL NO. 3 TO APPROVE THE NAME CHANGE FROM TORREYPINES THERAPEUTICS, INC. TO RAPTOR PHARMACEUTICAL CORP.

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TorreyPines Proposal No. 4: Election of Directors

TorreyPines board of directors is currently comprised of four members. Each director is elected to hold office for a one year term or until the next annual meeting of stockholders and until his or her successor is elected and qualified or until his or her earlier death, resignation or removal. As a condition to the closing of the merger with Raptor, each of TorreyPines current directors will be required to tender his or her resignation as a director effective as of the closing.

TorreyPines board of directors has nominated Peter Davis, Ph.D., Steven H. Ferris, Ph.D., Evelyn Graham and Steven B. Ratoff for re-election to the TorreyPines board of directors. The merger agreement with Raptor requires that TorreyPines take all necessary corporate action such that immediately following the closing of the merger the individuals currently serving as the members of Raptor's board of directors shall compose the board of directors of the combined company.

The four nominees receiving the most **FOR** votes from the TorreyPines shares having voting power present in person or represented by proxy and entitled to vote at the TorreyPines annual meeting will be elected. Shares represented by executed proxies will be voted, if authority to do so is not withheld, for the election of Peter Davis, Ph.D., Steven H. Ferris, Ph.D., Evelyn Graham and Steven B. Ratoff. In the event that any nominee should be unavailable for election as a result of an unexpected occurrence, such shares will be voted for the election of such substitute nominee as the corporate governance and nominating committee of TorreyPines board of directors may propose. Peter Davis, Ph.D., Steven H. Ferris, Ph.D., Evelyn Graham and Steven B. Ratoff have each agreed to serve if elected, and TorreyPines has no reason to believe that any nominee will be unable to serve.

If the nominees are re-elected at the annual meeting and the merger is subsequently completed, in accordance with the provisions of the merger agreement Peter Davis, Ph.D., Steven H. Ferris, Ph.D., Evelyn Graham and Steven B. Ratoff will resign from the TorreyPines board of directors and Christopher M. Starr, Ph.D., Raymond W. Anderson, Erich Sager and Richard L. Franklin, M.D., Ph.D. will be appointed as new directors of the combined company. For more information, please see the section titled, "The Merger Agreement Directors and Officers of TorreyPines Following the Merger" in this joint proxy statement/prospectus.

Set forth below is biographical information for each person nominated.

THE TORREYPINES BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT TORREYPINES STOCKHOLDERS VOTE IN FAVOR OF EACH NAMED NOMINEE.

Set forth below is information regarding each director nominee, executive officer and significant employee of TorreyPines. There are no family relationships among any directors nominees of TorreyPines.

| Name | Age | Position | Director Since |
|-------------------------|------------|---|-----------------------|
| Peter Davis | 65 | Chairman of the Board, Director | 2006 |
| Steven H. Ferris, Ph.D. | 66 | Director | 2003 |
| Evelyn Graham | 61 | Chief Executive Officer, Director | 2008 |
| Steven B. Ratoff | 67 | Director | 2005 |
| Craig Johnson | 47 | Vice President, Finance and Chief Financial Officer | N/A |
| Paul Schneider | 39 | Vice President and General Counsel | N/A |

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Current TorreyPines Directors Biographical Information

The following biographical information is furnished with regard to the directors of TorreyPines as of August 27, 2009.

Peter Davis, Ph.D., has served as a director of TorreyPines since October 2006 and the Chairman of TorreyPines Board since May 2007. He previously served as a director of TPTX, Inc., TorreyPines subsidiary, from August 2005 to February 2007. Since 2002, Dr. Davis has worked as an independent consultant to a number of companies. Dr. Davis served as president of DNA Plant Technologies Corp., an agriculture biotechnology company, from 2001 to 2002. Dr. Davis was a member of the Executive Committee of Pulsar International, S.A., a management consultant company and an affiliate of A.G. Biotech Capital, from 1993 to 2001. From 1975 to 1993, Dr. Davis was a faculty and staff member of the Wharton School of the University of Pennsylvania. His primary appointments included Director of the Applied Research Center and Director of Executive Education. He is a member of the board of directors of several private companies. Dr. Davis received a B.A. in physics from Cambridge University, a Masters Degree in operations research from the London School of Economics and a Ph.D. in operations research from the Wharton School of the University of Pennsylvania.

Steven H. Ferris, Ph.D. has served as a director of TorreyPines since January 2003. Dr. Ferris is a neuropsychologist, psychopharmacologist, and gerontologist who has been studying brain aging and Alzheimer's disease for over 30 years. Dr. Ferris is the Friedman Professor and Director of the Alzheimer's Disease Center in the Department of Psychiatry at New York University (NYU) School of Medicine, and Executive Director of the Aging and Clinical Dementia Research Center of the NYU Center of Excellence for Brain Aging and Dementia. Dr. Ferris has been at the NYU School of Medicine since 1973, where he has conducted a major research program focusing on cognitive assessment, early diagnosis and treatment of brain aging and Alzheimer's disease. He has served as the Associate Editor in Chief of *Alzheimer Disease and Associated Disorders*, is a former member of the Medical and Scientific Affairs Council of the national *Alzheimer's Association*, has served on several National Institutes of Health peer review panels, and has been a member of the U.S. Food and Drug Administration Advisory Committee which reviews new drugs for Alzheimer's disease. He has conducted more than 75 clinical trials in aging and dementia and has been a consultant to numerous pharmaceutical companies who are developing new treatments for Alzheimer's disease.

Evelyn A. Graham has served as TorreyPines Chief Executive Officer and a director of TorreyPines since November 2008. Ms. Graham served as TorreyPines Acting Chief Executive Officer from September 2008 to November 2008 and as TorreyPines Chief Operating Officer from October 2006 to August 2008. Ms. Graham joined TPTX, Inc., TorreyPines subsidiary, in 2004 as Vice President, Development; she became TPTX Inc.'s Vice President, Corporate Development in 2005 and Chief Operating Officer in 2006. Ms. Graham was Executive Director, Development Operations at Purdue Pharma, a privately-held pharmaceutical company, from 2000 to 2003. From 1998 to 2000, Ms. Graham was Senior Vice President of Business Development of Ingenix Pharmaceutical Services, a health information technology company and a division of UHG, and served as Vice President of Clinical Operations at Worldwide Clinical Trials, a contract research organization, prior to its acquisition by UHG. Previously, Ms. Graham held positions in operations management, healthcare utilization, and organizational planning at Bayer Corporation and Wyeth Pharmaceuticals (formerly Ayerst Laboratories). Ms. Graham holds a B.A. in biology from the University of Delaware and an M.B.A. from the University of Connecticut.

Steven B. Ratoff has served as a director of TorreyPines since May 2005. From September 2005 to October 2006, Mr. Ratoff served as the Chairman of TorreyPines Board. Mr. Ratoff is currently a private investor and has been a Venture Partner with Proquest Investments, a biopharmaceutical venture firm, since 2004. In addition, he is currently serving as the Chairman and Interim Chief Executive Officer of Novadel Pharma, Inc., a publicly traded specialty pharmaceutical company. He served as Chairman and Interim Chief Executive Officer of Cima Labs, Inc., a publicly traded specialty pharmaceutical company, from May 2003 through its sale to Cephalon, Inc. in August 2004. He was the President and Chief Executive Officer of MacroMed, Inc., a privately owned drug delivery company, from February 2001 to December 2001, and also as

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director of that company from 1998 to 2001. Mr. Ratoff's experience includes serving as Executive Vice President and Chief Financial Officer of Brown-Forman Corporation, a publicly traded diversified manufacturer of consumer products, as well as 15 years in a variety of senior financial positions with Bristol-Myers Squibb. Mr. Ratoff received a B.S. in Business Administration from Boston University and an M.B.A. with Distinction from the University of Michigan. Mr. Ratoff is also a retired Certified Public Accountant.

Executive Employee Biographical Information

Evelyn A. Graham

See above under Director Biographical Information .

Craig A. Johnson has been TorreyPines Vice President, Finance and Chief Financial Officer since October 2006. Mr. Johnson has served as Chief Financial Officer and Vice President, Finance of TPTX, Inc., TorreyPines subsidiary since January 2004 and as a director since February 2007. From 1994 to 2004, Mr. Johnson served in a number of financial positions with MitoKor, Inc., a biotechnology company, and last held the position of Chief Financial Officer and Senior Vice President of Operations. Prior to joining MitoKor, Mr. Johnson served as a senior financial executive for several early-stage technology companies, and from 1984 to 1988 Mr. Johnson worked for the accounting firm Price Waterhouse. Mr. Johnson received his B.B.A. in accounting from the University of Michigan and is a certified public accountant. He has been actively involved in the Association of Bioscience Financial Officers since 1998. Mr. Johnson serves as a director and the Chairman of the Audit Committee for Ardea Biosciences, Inc., a publicly traded biotechnology company.

Paul R. Schneider has been TorreyPines Vice President and General Counsel since 2007. From 2002 to 2007, Mr. Schneider was an associate with the law firm of Cooley Godward Kronish, LLP. From 1993 to 1999, Mr. Schneider worked as an analytical chemist for Eli Lilly & Company. Mr. Schneider is a member of the State Bar of California and holds B.S. degrees in Chemistry and Economics from the University of Wisconsin, Madison and a J.D. from Duke Law School.

Independence of the TorreyPines Board of Directors

As required under applicable NASDAQ Marketplace Rules, a majority of the members of a listed company's board of directors must qualify as independent, as affirmatively determined by the board of directors. TorreyPines board of directors consults with its counsel to ensure that its board of directors' determinations are consistent with all relevant securities and other laws and regulations regarding the definition of independent, including those set forth in pertinent NASDAQ Marketplace Rules, as in effect time to time.

Consistent with these considerations, after review of all relevant transactions or relationships between each director or any of his or her family members, and TorreyPines senior management, TorreyPines independent registered public accounting firm and TorreyPines, the board of directors of TorreyPines affirmatively has determined that all of the directors are independent directors within the meaning of the applicable NASDAQ Marketplace Rules, except for Ms. Graham.

As required under applicable NASDAQ Marketplace Rules, in 2008 TorreyPines independent directors met in regularly scheduled executive sessions at which only independent directors were present.

Meetings of the TorreyPines Board of Directors

TorreyPines board of directors met eleven times during 2008. Each director attended 75% or more of the aggregate of the meetings of the board of directors and of the committees on which he or she served, held during the period for which he or she was a director or committee member, respectively.

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Attendance at TorreyPines Annual Meetings

TorreyPines has adopted a policy encouraging its directors and nominees for director to attend TorreyPines annual meetings of stockholders. Six of TorreyPines seven directors then in office attended the TorreyPines 2008 annual meeting of stockholders.

TorreyPines Board Committees

TorreyPines board of directors currently has an Audit Committee, a Compensation Committee and a Corporate Governance and Nominating Committee. Below is a description of each committee of the board of directors and information regarding committee meetings held in 2008. The TorreyPines board of directors has determined that each member of each committee meets the applicable rules and regulations regarding independence and that each member is free of any relationship that would interfere with his or her individual exercise of independent judgment with regard to TorreyPines. The charters for the Audit, Compensation and Corporate Governance and Nominating Committees can be found on TorreyPines corporate website at www.tptxinc.com.

TorreyPines Audit Committee

The Audit Committee of the TorreyPines board of directors was established by the TorreyPines board of directors in accordance with Section 3(a)(58)(A) of the Exchange Act to oversee TorreyPines corporate accounting and financial reporting processes and audits of its financial statements. For this purpose, the Audit Committee performs several functions. The Audit Committee evaluates the performance of and assesses the qualifications of the independent registered public accounting firm; determines and approves the engagement of the independent registered public accounting firm; determines whether to retain or terminate the existing independent registered public accounting firm or to appoint and engage a new independent registered public accounting firm; reviews and approves the retention of the independent registered public accounting firm to perform any proposed permissible non-audit services; monitors the rotation of partners of the independent registered public accounting firm on TorreyPines audit engagement team as required by law; reviews and approves or rejects transactions between the TorreyPines and any related persons; confers with management and the independent registered public accounting firm regarding the effectiveness of internal controls over financial reporting; establishes procedures, as required under applicable law, for the receipt, retention and treatment of complaints received by TorreyPines regarding accounting, internal accounting controls or auditing matters and the confidential and anonymous submission by employees of concerns regarding questionable accounting or auditing matters; and meets to review TorreyPines annual audited financial statements and quarterly financial statements with management and the independent registered public accounting firm, including reviewing TorreyPines disclosures under Management's Discussion and Analysis of Financial Condition and Results of Operations in TorreyPines Annual Report on Form 10-K.

The Audit Committee, which includes Dr. Davis, Dr. Ferris and Mr. Ratoff, met a total of 4 times during the fiscal year ended December 31, 2008. Dr. Davis currently chairs the Audit Committee. TorreyPines board of directors has determined that all members of its Audit Committee are independent (as independence is currently defined in Rule 5605(c)(2)(A)(i) and (ii) of the NASDAQ listing standards). TorreyPines board of directors has determined that Dr. Davis and Mr. Ratoff each qualifies as an audit committee financial expert as defined in the applicable Securities and Exchange Commission, or SEC, rules. The TorreyPines board of directors made a qualitative assessment of each of Dr. Davis and Mr. Ratoff's respective levels of knowledge and experience based on a number of factors, including his respective formal education and prior experience.

The Audit Committee is authorized to retain advisors and consultants and to compensate them for their services.

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TorreyPines Compensation Committee

The Compensation Committee of the TorreyPines board of directors acts on behalf of the board of directors to review, adopt and oversee TorreyPines compensation strategy, policies, plans and programs, including:

establishment of corporate and individual performance objectives relevant to the compensation of TorreyPines executive officers, directors and other senior management and evaluation of performance in light of these stated objectives;

review and approval of the compensation and other terms of employment or service, including severance and change-in-control arrangements, of TorreyPines Chief Executive Officer and the other executive officers;

review and recommendation to the board of directors of the type and amount of compensation to be paid or awarded to board of directors members; and

administration of TorreyPines equity compensation plans, pension and profit-sharing plans, deferred compensation plans and other similar plan and programs.

The Compensation Committee also reviews with management TorreyPines Compensation Discussion and Analysis and considers whether to recommend that it be included in proxy statements and other filings.

The Compensation Committee, which included Dr. Fisherman, who resigned from the TorreyPines board of directors effective June 12, 2009, Mr. Van Beneden, who resigned from the TorreyPines board of directors effective May 29, 2009 and Mr. Ratoff, met a total of 4 times during the year ended December 31, 2008. Mr. Ratoff currently chairs the Compensation Committee. TorreyPines board of directors has determined that all members of TorreyPines Compensation Committee are independent (as independence is currently defined in Rule 5605(a)(2) of the NASDAQ listing standards). The Compensation Committee is authorized to retain advisors and consultants and to compensate them for their services.

Executive and Director Compensation Process

The following is an overview of TorreyPines processes and procedures for the consideration and determination of executive compensation. The specific determinations of the Compensation Committee with respect to executive compensation for fiscal 2008 are described in greater detail in the Compensation Discussion and Analysis section of TorreyPines Annual Report on Form 10-K for the year ended December 31, 2008 filed with the SEC on March 27, 2009.

At the beginning of each year the Compensation Committee meets with TorreyPines management team to specify a limited number of key corporate goals for the upcoming year. Additionally, the Compensation Committee works with the Chief Executive Officer to establish goals specific to the Chief Executive Officer. At the end of the year the Compensation Committee reviews corporate performance and establishes the achievement level of each goal. The Compensation Committee also reviews the performance of the Chief Executive Officer and establishes the achievement level of his or her goals.

Compensation Committee Interlocks and Insider Participation

No member of TorreyPines Compensation Committee has served as one of its officers or employees at any time. None of TorreyPines executive officers serves, or has served during the last fiscal year, as a member of the compensation committee or a member of the board of directors of any other company that has an executive officer serving as a member of TorreyPines Compensation Committee or TorreyPines board of directors.

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TorreyPines Corporate Governance and Nominating Committee

The Corporate Governance and Nominating Committee of the TorreyPines board of directors is responsible for identifying, reviewing and evaluating candidates to serve as TorreyPines directors (consistent with criteria approved by the TorreyPines board of directors), reviewing and evaluating incumbent directors, recommending to the TorreyPines board of directors for selection candidates for election to the TorreyPines board of directors, making recommendations to the TorreyPines board of directors regarding the membership of the committees of the TorreyPines Board, assessing the performance of the TorreyPines board of directors and developing a set of corporate governance principles for the TorreyPines.

The Corporate Governance and Nominating Committee believes that candidates for director should have certain minimum qualifications, including the ability to read and understand basic financial statements and having the highest personal integrity and ethics. The Corporate Governance and Nominating Committee also intends to consider such factors as possessing relevant expertise upon which to be able to offer advice and guidance to management, having sufficient time to devote to the affairs of the TorreyPines, knowledge of the industry, having the ability to exercise sound business judgment and having the commitment to represent the long-term interests of TorreyPines stockholders. However, the Corporate Governance and Nominating Committee retains the right to modify these qualifications from time to time. Candidates for director nominees are reviewed in the context of the current composition of the TorreyPines board of directors, the operating requirements of the TorreyPines and the long-term interests of stockholders. In conducting this assessment, the Corporate Governance and Nominating Committee considers such factors as it deems appropriate given the current needs of the TorreyPines board of directors and the company, to maintain a balance of knowledge, experience and capability.

At this time, the TorreyPines Corporate Governance and Nominating Committee does not have a policy with regard to the consideration of director candidates recommended by stockholders. The TorreyPines Corporate Governance and Nominating Committee believes that it is in the best position to identify, review, evaluate and select qualified candidates for board of directors membership, based on the comprehensive criteria for board of directors membership approved by the TorreyPines board of directors.

The Corporate Governance and Nominating Committee, which included Dr. Deleage, who resigned from the TorreyPines board of directors of directors effective May 27, 2009, and Dr. Davis and Mr. Ratoff, held 1 meeting during the year ended December 31, 2008. All members of the Nominating Committee are independent, as independence is currently defined in Rule 5605(a)(2) of the NASDAQ listing standards. The Corporate Governance and Nominating Committee is authorized to retain advisors and consultants and to compensate them for their services.

Compensation to Directors

Each of TorreyPines non-employee directors receives as compensation:

an annual retainer of \$20,000 payable on the date of the Annual Meeting of the TorreyPines stockholders;

an additional annual retainer of \$20,000 for the Chairman of TorreyPines board of directors payable on the date of the Annual Meeting of the TorreyPines stockholders;

an annual \$10,000 retainer for service as the Audit Committee chair payable on the date of the Annual Meeting of the TorreyPines stockholders ;

an annual \$10,000 retainer for service as the Compensation Committee chair payable on the date of the Annual Meeting of the TorreyPines stockholders ;

an annual \$3,000 retainer for service as the Corporate Governance and Nominating Committee chair payable on the date of the Annual Meeting of the TorreyPines stockholders ;

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\$1,500 per board meeting attended in person or telephonically; and

\$1,000 per meeting of the Audit Committee, Compensation Committee or Corporate Governance and Nominating Committee attended in person or telephonically.

In addition to the cash compensation set forth above, on the date of each Annual meeting of stockholders each continuing non-employee director will receive an annual stock option grant for 10,000 shares of TorreyPines common stock which will fully vest on the one year anniversary of the grant date. Each non-employee director who first becomes a director of the TorreyPines will receive an initial stock option grant for 20,000 shares which would vest over four years in equal monthly installments. Stock options granted to non-employee directors have an exercise price equal to the closing price of the TorreyPines common stock on the date of grant as reported by NASDAQ. Each non-employee director was also reimbursed for reasonable out-of-pocket expenses incurred in attending meetings of the TorreyPines board of directors or any committee of the TorreyPines board of directors. The TorreyPines board of directors has suspended the payment of the annual retainers payable to each non-employee director for 2009 as well as the annual stock option grant that was to be issued to each non-employee director in connection with the 2009 annual meeting of TorreyPines stockholders.

Compensation Discussion and Analysis

Objectives and Philosophy of Executive Compensation

The Compensation Committee of TorreyPines board of directors is responsible for establishing, implementing and monitoring the policies governing compensation for TorreyPines executives. The objective of TorreyPines Compensation Committee is to provide a competitive compensation package that will attract, motivate and retain talented and dedicated executives who will enable TorreyPines to achieve its key strategic goals. TorreyPines Compensation Committee believes it is important to align incentives for executives with value creation for stockholders. In order to accomplish this purpose, TorreyPines Compensation Committee believes it is appropriate for a significant amount of the total compensation of each executive to be based on performance, which compensation may or may not be earned. TorreyPines Compensation Committee intends to make compensation decisions that:

support TorreyPines overall business objectives;

reward outstanding performance in discovery, preclinical development and clinical development;

recognize disciplined management of financial resources;

motivate employees in a high performance environment; and

demand the highest standards of corporate governance and personal integrity.

TorreyPines Compensation Committee believes that:

the overall compensation package for each of TorreyPines executives should be based on performance, should motivate TorreyPines executives to achieve TorreyPines key strategic goals, and should be aligned with the compensation package of TorreyPines other executive officers and employees;

for the purpose of recruitment and retention, executive base salaries should be competitive with salaries paid to executives at peer group companies in the life sciences industry that are comparable to TorreyPines in size and stage of development, and should be targeted near the median salary range for executives with similar responsibilities at public companies in TorreyPines peer group and

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base salaries should represent a portion of the overall compensation package that provides sufficient incentives to strive for achievement of goals;

actual bonus amounts should be conditioned upon the achievement of corporate and individual goals that reflect key strategic objectives that are expected to create overall stockholder value if achieved,

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target bonus amounts for executives should be competitive with bonus amounts paid to executives at companies in our peer group, and target bonus amounts should represent a portion of the overall compensation package that provides sufficient incentives to strive for achievement of goals; and

long-term equity incentive awards offer an important element of our overall compensation package that reward our executives for meeting our long-term goals while preserving available cash and align executive interests with those of our stockholders.

In addition TorreyPines Compensation Committee believes that it is necessary to provide severance payments to certain executives in order to remain competitive with TorreyPines peer group. However, TorreyPines Compensation Committee believes that any severance payments paid in the event of a change of control of TorreyPines should be triggered only in the event that the executive no longer remains an executive of the combined company following the change of control. In addition, any severance paid to executives, either in connection with a change of control or otherwise, should be in the lower range of severance paid to executives by companies in TorreyPines peer group.

TorreyPines Compensation Committee believes that providing executives with a mix of stock options and restricted stock units is the appropriate means of retaining executives, focusing TorreyPines executives on delivering long-term value to stockholders and providing long-term value to TorreyPines executives. Stock options vest over time and only have value to the extent TorreyPines stock price on the date the option is exercised exceeds the exercise price of the option. The restricted stock units will vest on the achievement of certain objectively defined results and have value to the executives at that time without the requirement of further payment by the executive. TorreyPines Compensation Committee believes that the combination of stock option grants and restricted stock unit grants will achieve the proper balance between upside potential and volatility while providing good long-term incentives to TorreyPines executives.

Material tax and accounting implications of executive compensation policies

TorreyPines accounts for the equity compensation expense for its employees under the rules of SFAS 123R, which requires TorreyPines to estimate and record an expense for each award of equity compensation over the service period of the award. Accounting rules also require TorreyPines to record cash compensation as an expense at the time the obligation is accrued. Unless and until TorreyPines achieves sustained profitability, the availability to TorreyPines of a tax deduction for compensation expense is not material to TorreyPines financial position. TorreyPines structures discretionary cash bonus compensation so that it is taxable to its employees at the time it becomes available to them. Federal income tax law prohibits publicly held companies from deducting certain compensation paid to a named executive officer that exceeds \$1 million during the tax year. To the extent that compensation is based upon the attainment of performance goals set by TorreyPines Compensation Committee pursuant to plans approved by TorreyPines stockholders, the compensation is not included in the computation of this limit. Although TorreyPines Compensation Committee intends, to the extent feasible and where it believes it is in the best interests of TorreyPines and its stockholders, to attempt to qualify executive compensation as tax deductible, it does not intend to permit this tax provision to dictate TorreyPines Compensation Committee's development and execution of effective compensation plans.

Evaluation of Executive Compensation Package

During the months of November and December 2008 and January 2009, TorreyPines Compensation Committee, along with TorreyPines board of directors, had numerous informal discussions regarding the appropriate compensation packages for TorreyPines executives. TorreyPines Compensation Committee, in conjunction with the TorreyPines board of directors, determined that given the financial constraints of TorreyPines there would be no salary adjustment for 2009 and no bonuses paid for 2008.

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Elements of Executive Compensation

Executive compensation consists of the following elements:

Base Salary. Base salaries for TorreyPines executives are established based on the particular scope of each executive's responsibilities as well as their qualifications, experience and performance, taking into account competitive market compensation paid by other companies in TorreyPines peer group for individuals with similar responsibilities. Base salaries are reviewed annually, and additionally may be adjusted from time to time to realign salaries with market levels after taking into account individual responsibilities, performance and experience. TorreyPines Compensation Committee intends to conduct an annual review of base salaries, and the overall compensation package, each year toward the end of the year.

Discretionary Annual Cash Bonus. Discretionary annual cash bonuses are a means of rewarding individuals based on achievement of annual corporate and individual goals. TorreyPines Compensation Committee has the authority to award discretionary annual cash bonuses to TorreyPines executives. Each of TorreyPines executives has an annual cash bonus target ranging from 20% to 40% of base salary for 2008 depending on such executive's responsibilities. At the beginning of 2008 TorreyPines Compensation Committee met with TorreyPines management team to specify a limited number of key corporate goals for the year. These goals were then weighted to reflect their importance in determining overall corporate performance. At the end of 2008 TorreyPines Compensation Committee reviewed corporate performance and determined whether the particular goal was achieved. The sum of the goals achieved is the basis for any bonus payout amount for each executive.

2008 Bonus Amounts. In 2008, TorreyPines Compensation Committee and TorreyPines board of directors determined that given the current financial condition of TorreyPines no bonuses would be paid to any of TorreyPines executives.

Long-Term Equity Incentive Awards. Long-term equity incentive awards are a means of encouraging executive ownership of TorreyPines stock, promoting executive retention, and providing a focus on long-term corporate goals as well as increased stockholder value. TorreyPines Compensation Committee approves equity incentive award grants at year end following an increase in responsibilities by an executive.

In December 2006, TorreyPines Compensation Committee developed a three year equity award plan that would result in fair and equitable level of ownership in TorreyPines by the senior executives should TorreyPines be successful in achieving its long-term goals. TorreyPines Compensation Committee's plan involves the use of both stock option grants, which vest over time, and restricted stock units that vest based on corporate and individual performance. In order to provide a significant incentive to TorreyPines executives at a reasonable cost, TorreyPines Compensation Committee determined that a substantial portion of the equity awards to be issued in the three year plan would be granted in 2006, with vesting periods that extend over four years.

Stock Options. Stock options granted by TorreyPines have an exercise price equal to the fair market value of TorreyPines common stock on the day of grant, typically vest over a four-year period with 25% vesting 12 months after the vesting commencement date and the remainder vesting ratably each month thereafter based upon continued employment, and generally expire ten years after the date of grant. Incentive stock options also include certain other terms necessary to assure compliance with the Code.

Restricted Stock and Restricted Stock Units. TorreyPines stock plans authorize it to grant restricted stock and restricted stock units. Restricted stock units vest on the attainment of a specified milestone or time period. Once the restricted stock unit has vested, the executive has the ability to obtain shares of TorreyPines common stock.

In determining the number of stock options and restricted stock units to be granted to executives, TorreyPines Compensation Committee takes into account the individual's position, scope of responsibility,

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qualifications and experience, ability to affect stockholder value, historic and recent performance, existing vested and unvested awards, and the value of stock options in relation to the other elements of the individual executive's total compensation package. In order to control overall stockholder dilution, TorreyPines' Compensation Committee also evaluates the aggregate outstanding stock options to all TorreyPines' employees in relation to those granted to its executives when determining the number of options and restricted stock units that should be granted.

2008 Equity Awards. In 2008, TorreyPines' executives were awarded stock options in the amounts indicated in the section titled "Grants of Plan-Based Awards." These awards are based on the executives' performance during 2008 and as part of the three year equity plan developed by the Compensation Committee in 2006.

2009 Equity Awards. In 2009, TorreyPines' executives were awarded stock options in the amounts indicated in the section titled "Grants of Plan-Based Awards." These awards were granted as a means of promoting executive retention and focus on near-term corporate goals.

Broad-Based Benefit Plans. Broad-based benefit plans are an integral component of competitive executive compensation packages. TorreyPines benefits include a 401(k) savings plan, health benefits such as medical, dental, and vision plans, and disability and life insurance benefits. TorreyPines has no structured perquisite benefits, and does not provide any deferred compensation programs or supplemental pensions to any executives. In its discretion, TorreyPines' Compensation Committee may revise, amend or add to the executive's benefits if it deems it advisable.

Change in Control and Severance Benefits. Change in control arrangements are designed to retain executives and provide continuity of management in the event of a change in control. TorreyPines has entered into employment agreements with its Chief Executive Officer, its Chief Financial Officer and its Vice President and General Counsel. These agreements provide for severance compensation to be paid if the executives are terminated under certain conditions, such as a termination following a change in control or a termination without cause by TorreyPines, each as set forth in the applicable agreement.

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The following table provides information regarding the annual and long-term compensation earned for services rendered in all capacities to TorreyPines Therapeutics, Inc. for the years ended December 31, 2008, 2007 and 2006 of those persons who (i) served at any time during the last fiscal year as our Principal Executive Officer, (ii) served at any time during the last fiscal year as our Principal Financial Officer, (iii) were serving at fiscal year-end as our two most highly compensated executive officers, other than the Principal Executive Officer and the Principal Financial Officer, whose total compensation exceeded \$100,000 (collectively, the Named Executive Officers) and (iv) any additional persons who would have been a Named Executive Officer but for not serving as of December 31, 2008.

SUMMARY COMPENSATION TABLE FOR 2008

| Name and Principal Position | Year | Salary (\$) | Bonus (\$) | Stock Awards (1)(\$) | Option Awards (1)(\$) | Non-Equity Incentive | | Total (\$) |
|---|------|----------------|---------------|----------------------------|-----------------------------|---------------------------------|-----------------------------------|---------------|
| | | | | | | Plan Compensation (2)(\$) | All Other Compensation (\$) | |
| Evelyn A. Graham Chief Executive Officer | 2008 | \$ 304,667 | | \$ 34,270 | \$ 45,206 | \$ | \$ | \$ 384,143 |
| | 2007 | 271,200 | | 34,175 | 40,418 | 69,200 | | 414,993 |
| | 2006 | 228,757 | | 1,609 | 15,107 | 88,400 | | 333,873 |
| Craig A. Johnson Vice President, Chief Financial Officer | 2008 | 282,000 | | 34,270 | 44,214 | | | 360,484 |
| | 2007 | 271,200 | | 34,175 | 40,431 | 69,200 | | 415,006 |
| | 2006 | 223,221 | | 1,609 | 15,120 | 61,951 | | 301,901 |
| Susan J. Mellberg Former Vice President, Project Management(3) | 2008 | 197,400 | | 20,562 | 23,155 | | | 241,117 |
| Paul R. Schneider Vice President and General Counsel | 2008 | 217,700 | | 1,007 | 75,208 | | | 293,915 |
| Neil M. Kurtz, M.D. Former President & Chief Executive Officer(4) | 2008 | 320,015 | | (93,040) | 51,515 | | | 278,490 |
| | 2007 | 417,200 | | 88,856 | 78,436 | 141,800 | | 726,292 |
| | 2006 | 354,272 | | 4,184 | 18,639 | 135,364 | | 512,459 |
| Steven Wagner, Ph.D. Former Chief Scientific Officer(5) | 2008 | 249,068 | | (14,314) | 8,987 | | 12,249(5) | 255,990 |
| | 2007 | 237,800 | | 13,670 | 13,809 | 50,500 | | 315,779 |
| | 2006 | 228,000 | | 644 | 2,039 | 59,850 | | 290,533 |

- (1) The amounts shown reflect the dollar amount recognized for financial statement reporting purposes for the fiscal years ended December 31, 2008, 2007 and 2006, in accordance with FAS 123R of restricted stock units granted pursuant to our 2006 Equity Incentive Plan (the 2006 Plan) or stock option grants pursuant to both the 2000 Stock Option Plan (the 2000 Plan) and the 2006 Plan and thus may include amounts from restricted stock units or stock options granted in and prior to 2008, 2007 and 2006, respectively. Assumptions used in the calculation of these amounts are included in the footnotes of the consolidated Financial Statements included in Part IV, Item 15, of this Annual Report on Form 10-K.
- (2) Amounts listed in this column for 2007 were awarded for corporate and individual performance in 2007 but were paid in January 2008. Amounts listed in this column for 2006 were awarded for corporate and individual performance in 2006 but were paid in February 2007.
- (3) Ms. Mellberg's last date of employment was March 31, 2009.
- (4) Dr. Kurtz resigned from TorreyPines effective August 31, 2008.
- (5) Dr. Wagner's last date of employment was September 30, 2008 and his total salary for 2008 includes severance pay totaling \$61,225.
- (6) Amount consists of a reimbursement for the cost of health benefits under COBRA.

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The following table presents information concerning grants of plan-based awards to each of the Named Executive Officers for the fiscal year ended December 31, 2008.

GRANTS OF PLAN-BASED AWARDS IN 2008

| Name | Grant Date | Estimated Possible Payouts Under Non-Equity Incentive Plan Awards(1) | | | All Other Option Awards: Number of Securities Underlying Options (2)(#) | Exercise or Base Price of Option Awards (\$/Sh) | Grant Date Fair Value of Stock and Option Awards (3)(\\$) |
|----------------------------|-----------------|--|-------------|--------------|---|---|---|
| | | Threshold (\$) | Target (\$) | Maximum (\$) | | | |
| Evelyn A. Graham | 10/15/08 n/a | 110,250 | 157,500 | 236,250 | 300,000 | 0.27 | 53,580 |
| Craig A. Johnson | 10/15/08 n/a | 59,220 | 84,600 | 126,900 | 250,000 | 0.27 | 44,650 |
| Paul R. Schneider | 10/15/08 | 38,098 | 54,425 | 81,638 | 120,000 | 0.27 | 21,432 |
| Susan J Mellberg(4) | 10/15/08 | 29,036 | 41,480 | 62,220 | 120,000 | 0.27 | 21,432 |
| Neil M. Kurtz, M.D.(5) | n/a | 131,418 | 187,740 | 281,610 | | | |
| Steven L. Wagner, Ph.D.(6) | n/a | 42,858 | 61,225 | 91,838 | | | |

- (1) The amounts shown in these columns represent the threshold, target and maximum payout levels for discretionary annual cash bonuses for 2008 performance. The actual amount of incentive bonus earned by each Named Executive Officer in 2008 was \$0 and is reported under the Non-Equity Incentive Plan Compensation column in the Summary Compensation Table. The potential payouts for Named Executive Officers are performance driven and therefore are completely at risk.
- (2) This column reflects the number of stock options granted under TorreyPines 2006 Plan during 2008. The terms of these awards are summarized in the Outstanding Equity Awards at Fiscal Year-End Table below.
- (3) Amount represents the grant date fair value for stock options granted under TorreyPines 2006 Plan during 2008 and is computed in accordance with FAS 123R. Assumptions used in the calculation of these amounts are included in the footnotes of the consolidated Financial Statements included in this joint proxy statement/prospectus.
- (4) Ms. Mellberg was TorreyPines former Vice President, Project Management; her last date of employment was March 31, 2009.
- (5) Dr. Kurtz was TorreyPines former President and Chief Executive Officer; he resigned from the Company effective August 31, 2008.
- (6) Dr. Wagner was TorreyPines former Chief Scientific Officer; his last date of employment was September 30, 2008.

Table of Contents**Outstanding Equity Awards at Fiscal Year-End**

The following table presents the outstanding equity awards held by each of the Named Executive Officers as of the fiscal year ended December 31, 2008 including the value of outstanding stock awards.

OUTSTANDING EQUITY AWARDS AT DECEMBER 31, 2008

| Name | Option Awards | | | | Stock Awards | |
|-----------------------|---|---|----------------------------|------------------------|---|---|
| | Number of Securities Underlying Unexercised Options (#) Exercisable | Number of Securities Underlying Unexercised Options (#) Unexercisable | Option Exercise Price (\$) | Option Expiration Date | Equity Incentive Plan Awards: Number of Unearned Shares, Units or Other Rights That Have Not Vested (#) | Equity Incentive Plan Awards: Market or Payout Value of Unearned Shares, Units or Other Rights That Have Not Vested (\$)(3) |
| Evelyn A. Graham(9) | 8,120 | | 1.24 | 2/04/2014 | | |
| | 28,420 | 4,060(4) | 1.24 | 6/12/2015 | | |
| | 12,500 | 12,500(5) | 6.37 | 12/13/2016 | | |
| | 2,125 | 6,375(6) | 2.90 | 12/05/2017 | | |
| | 25,000 | 275,000(8) | 0.27 | 10/14/2018 | | |
| | | | | | 25,000(1) | 6,750 |
| Craig A. Johnson(10) | 8,120 | | 1.24 | 2/04/2014 | | |
| | 28,420 | 4,060(4) | 1.24 | 6/12/2015 | | |
| | 12,500 | 12,500(5) | 6.37 | 12/13/2016 | | |
| | 2,125 | 6,375(6) | 2.90 | 12/05/2017 | | |
| | 20,833 | 229,167(8) | 0.27 | 10/14/2018 | | |
| | | | | | 25,000(1) | 6,750 |
| Susan J. Mellberg | 8,628 | | 1.24 | 2/04/2014 | | |
| | 7,578 | 1,083(4) | 1.24 | 6/12/2015 | | |
| | 7,500 | 7,500(5) | 6.37 | 12/13/2016 | | |
| | 1,219 | 3,656(6) | 2.90 | 12/05/2017 | | |
| | 10,000 | 110,000(8) | 0.27 | 10/14/2018 | | |
| | | | | | 15,000(1) | 4,050 |
| Paul R. Schneider(11) | 25,208 | 29,792(7) | 7.77 | 1/31/2017 | | |
| | 1,219 | 3,656(6) | 2.90 | 12/05/2017 | | |
| | 10,000 | 110,000(8) | 0.27 | 10/14/2018 | | |
| | | | | | 15,000(2) | 4,050 |

- (1) Amount reflects restricted stock units awarded during 2006. These restricted stock units will vest on March 31, 2009, provided our average closing stock price for the six-month period ending March 31, 2009 is at or above a specified amount. The restricted stock units are subject to forfeiture if the individual officers do not meet the service requirements and have an expiration date of December 31, 2016.
- (2) Amount reflects restricted stock units awarded during 2006. These restricted stock units will vest on March 31, 2009, provided our average closing stock price for the six-month period ending March 31, 2009 is at or above a specified amount. The restricted stock units are subject to forfeiture if the individual officer does not meet the service requirements and have an expiration date of December 31, 2017.
- (3) The amounts reflected as Market or Payout Value are based on the closing price of our common stock (\$0.27) on December 31, 2008, the last business day of 2008, as reported by Nasdaq.
- (4) These options vest in equal monthly installments on the 25th of each month and will be fully vested on April 25, 2009.
- (5) These options vest in equal monthly installments on the 14th of each month and will be fully vested on December 14, 2010.

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- (6) Twenty-five percent (25%) of the shares underlying the options vested on December 6, 2008 and thereafter the options vest in equal monthly installments on the 6th of each month. These options vest will be fully vested on December 6, 2011.
- (7) These options vest in equal monthly installments on the 1st of each month and will be fully vested on February 1, 2011.
- (8) These options vest in equal monthly installments on the 15th of each month and will be fully vested on October 15th, 2011.
- (9) On February 23, 2009 the Board of Directors granted 300,000 stock options to Ms. Graham. These options have an exercise price of \$0.23 per share, were one hundred percent (100%) vested as of the grant date and will expire on February 22, 2019.
- (10) On February 23, 2009 the Board of Directors granted 250,000 stock options to Mr. Johnson. These options have an exercise price of \$0.23 per share, were one hundred percent (100%) vested as of the grant date and will expire on February 22, 2019.
- (11) Ms. Mellberg was TorreyPines former Vice President, Project Management; her last date of employment was March 31, 2009.
- (12) On February 23, 2009 the Board of Directors granted 250,000 stock options to Mr. Schneider. These options have an exercise price of \$0.23 per share, were one hundred percent (100%) vested as of the grant date and will expire on February 22, 2019.

Option Exercises and Stock Vested at Fiscal Year End

There were no option exercises by the Named Executive Officers and no stock awards vested during the fiscal year ended December 31, 2008.

Pension Benefits

None of our Named Executive Officers participates in or has account balances in qualified or non-qualified defined benefit plans sponsored by us.

Nonqualified Deferred Compensation

None of our Named Executive Officers participate in or have account balances in non-qualified defined contribution plans or other deferred compensation plans maintained by us.

Potential Payments Upon Termination or Change-in-Control Arrangements

Employment Agreement with Ms. Graham

TorreyPines entered into an employment agreement with Ms. Graham on December 14, 2006. TorreyPines entered into an amended and restated employment agreement with Ms. Graham on September 1, 2008 in connection with Ms. Graham being appointed acting Chief Executive Officer. On February 3, 2009 TorreyPines entered into an amendment to such amended and restated employment agreement extending the time of severance payments to twelve (12) months following a change in control such employment agreement, as amended, referred to herein as the Graham Original Employment Agreement. The Graham Original Employment Agreement provides for an initial annual base salary of not less than \$350,000 and provides that Ms. Graham will be eligible to earn an annual bonus for 2008 in an amount up to 150% of her target bonus of 45% of her annual base salary, as determined by TorreyPines board of directors.

Pursuant to the terms of the Graham Original Employment Agreement, in the event that Ms. Graham's employment is terminated without cause or is terminated (either by TorreyPines without cause or by such executive for good reason) three (3) months prior to or twelve (12) months after a change in control, Ms. Graham will be entitled to continue to receive for twelve months following the date of her termination or resignation

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(a) her base salary and (b) an amount equal to one-twelfth of the greater of (i) the average of the three annual bonuses paid to Ms. Graham by TorreyPines prior to the date of termination or resignation, (ii) the last annual bonus paid to Ms. Graham by TorreyPines prior to the date of termination or resignation, or (iii) if the termination occurs within the first 12 months following October 3, 2008, 45% of her base salary, which payments will be without reduction by any amount of Ms. Graham's earnings from any other employment during the 12-month severance period. Additionally, under those circumstances, the vesting of each of Ms. Graham's equity awards will be treated as if Ms. Graham had completed an additional 12 months of service immediately before the date on which her employment is terminated or she resigns. Ms. Graham's execution of a release in favor of TorreyPines is a condition to the receipt of these severance benefits, and she has agreed to a non-solicitation obligation and to confidentiality and assignment of inventions obligations in connection with her employment agreement.

Under the Graham Original Employment Agreement, a change in control is deemed to have occurred under any of the following circumstances, subject to certain exceptions and limitations: (i) a person becomes the owner of 50% or more of our voting power; (ii) the composition of TorreyPines' board of directors changes over a period of 24 consecutive months or less in a way that results in a majority of TorreyPines' board of directors (rounded up to the next whole number) ceasing, by reason of one or more proxy contests for the election of TorreyPines' board of directors members, to be comprised of individuals who either (A) have been TorreyPines' board of directors members continuously since the beginning of the period or (B) have been elected or nominated for election as TorreyPines' board of directors members during the period by at least two-thirds of the TorreyPines' board of directors members described in clause (A) who were still in office at the time the election or nomination was approved by the TorreyPines' board of directors; (iii) (A) a merger or consolidation occurs in which we are not the surviving entity, or (B) any reverse merger occurs in which TorreyPines is not the surviving entity, or (C) any merger involving one of TorreyPines' subsidiaries occurs in which TorreyPines is a surviving entity, but in each case in which holders of TorreyPines' outstanding voting securities immediately prior to such transaction, as such, do not hold, immediately following such transaction, securities possessing 50% or more of the total combined voting power of the surviving entity's outstanding securities (in the case of clause (A)) or TorreyPines' outstanding voting securities (in the case of clauses (B) and (C)); or (iv) all or substantially all of TorreyPines' assets are sold or transferred other than in connection with an internal reorganization or our complete liquidation (other than a liquidation of us into a wholly-owned subsidiary).

Employment Agreement with Mr. Johnson

TorreyPines entered into an employment agreement with Mr. Johnson on December 14, 2006. TorreyPines entered into an amended and restated employment agreement with Mr. Johnson on November 12, 2008 to comply with Section 409A of the Internal Revenue Code of 1986, as amended and the final regulations issued thereunder. On February 3, 2009 TorreyPines entered into an amendment to such amended and restated employment agreement extending the time of severance payments to twelve (12) months following a change in control such employment agreement, as amended, referred to herein as the Johnson Original Employment Agreement. The Johnson Original Employment Agreement provides for an initial annual base salary of not less than \$282,000 and provides that Mr. Johnson will be eligible to earn an annual bonus for 2008 in an amount up to 150% of his target bonus of 35% of his annual base salary, as determined by TorreyPines' board of directors.

Pursuant to the terms of the Johnson Original Employment Agreement, in the event that Mr. Johnson's employment is terminated without cause or is terminated (either by TorreyPines without cause or by such executive for good reason) three (3) months prior to or twelve (12) months after a change in control, Mr. Johnson will be entitled to continue to receive for twelve months following the date of his termination or resignation (a) his base salary and (b) an amount equal to one-twelfth of the greater of (i) the average of the three annual bonuses paid to Mr. Johnson by TorreyPines prior to the date of termination or resignation, (ii) the last annual bonus paid to Mr. Johnson by TorreyPines prior to the date of termination or resignation, or (iii) if the termination occurs within the first 12 months following November 12, 2008, 35% of his base salary, which payments will be without reduction by any amount of Mr. Johnson's earnings from any other employment during

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the 12-month severance period. Additionally, under those circumstances, the vesting of each of Mr. Johnson's equity awards will be treated as if Mr. Johnson had completed an additional 12 months of service immediately before the date on which his employment is terminated or he resigns. Mr. Johnson's execution of a release in favor of TorreyPines is a condition to the receipt of these severance benefits, and he has agreed to a non-solicitation obligation and to confidentiality and assignment of inventions obligations in connection with his employment agreement. The definition of change in control in Mr. Johnson's employment agreement is the same as in Ms. Graham's employment agreement.

Employment Agreement with Mr. Schneider

TorreyPines entered into an employment agreement with Mr. Schneider on February 1, 2007. TorreyPines entered into an amended and restated employment agreement with Mr. Schneider on November 12, 2008 to comply with Section 409A of the Internal Revenue Code of 1986, as amended and the final regulations issued thereunder. On February 3, 2009 TorreyPines entered into an amendment to such amended and restated employment agreement extending the time of severance payments to twelve (12) months following a change in control such employment agreement, as amended, referred to herein as the Schneider Original Employment Agreement. The Schneider Original Employment Agreement provides for an initial annual base salary of not less than \$217,700 and provides that he will be eligible to earn an annual bonus for 2008 in an amount up to 150% of his target bonus of 25% of his annual base salary, as determined by TorreyPines' board of directors.

Pursuant to the terms of the Schneider Original Employment Agreement, in the event that Mr. Schneider's employment is terminated without cause or is terminated (either by TorreyPines without cause or by such executive with good reason) three months prior to or twelve (12) months after a change in control, Mr. Schneider resigns for good reason, Mr. Schneider will be entitled to continue to receive for twelve months following the date of his termination or resignation (a) his base salary and (b) an amount equal to one-twelfth of the greater of (i) the average of the three annual bonuses paid to Mr. Schneider by TorreyPines prior to the date of termination or resignation, (ii) the last annual bonus paid to Mr. Schneider by TorreyPines prior to the date of termination or resignation, or (iii) if the termination occurs within the first 12 months following November 12, 2008, 25% of his base salary, which payments will be without reduction by any amount of Mr. Schneider's earnings from any other employment during the 12-month severance period. Additionally, under those circumstances, the vesting of each of Mr. Schneider's equity awards will be treated as if Mr. Schneider had completed an additional 12 months of service immediately before the date on which his employment is terminated or he resigns. Mr. Schneider's execution of a release in favor of TorreyPines is a condition to the receipt of these severance benefits, and he has agreed to a non-solicitation obligation and to confidentiality and assignment of inventions obligations in connection with his employment agreement. The definition of change in control in Mr. Schneider's employment agreement is the same as in Ms. Graham's employment agreement.

The table below estimates amounts payable upon a separation as if the individuals were separated on December 31, 2008 using the closing share price of TorreyPines' common stock as of that day.

| Name | Severance Payments | | | Total Value of Severance Payment | Accrued But Unused PTO | Value of Options Vesting Upon Termination(1) | Total Value of Benefits Due Upon Termination |
|-------------------|--------------------------------|-----------------|--|----------------------------------|------------------------|--|--|
| | Salary During Severance Period | Severance Bonus | Cobra Payments During Severance Period | | | | |
| Evelyn A. Graham | \$ 350,000 | \$ 157,500 | \$ 20,926 | \$ 528,426 | \$ 33,652 | \$ | \$ 562,078 |
| Craig A. Johnson | 282,000 | 69,200 | 21,210 | 372,410 | 27,114 | | 399,524 |
| Paul R. Schneider | 217,700 | 54,425 | 18,630 | 290,755 | 12,769 | | 303,524 |

(1) The Value of Options Vesting Upon Termination is calculated by multiplying the total options vesting upon termination (as outlined in the respective Employment Agreements) by the difference between the exercise price of the option and the closing price of TorreyPines' common stock (\$0.27) on December 31, 2008 as reported by NASDAQ.

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Employment Agreement Amendments

On July 27, 2009 TorreyPines and TPTX entered into a second amended and restated employment agreement with each of Ms. Graham, Mr. Johnson and Mr. Schneider which agreements are effective upon the closing of the merger. Pursuant to such amended and restated agreements the provisions discussed under this section, Potential Payments Upon Termination or Change-in-Control Arrangements, with respect to termination for cause, without cause and for good reason, and upon a change in control, as well as the vesting of equity awards, have been removed and/or amended and restated in their entirety. For more information, please see the section titled Interests of TorreyPines Directors and Executive Officers Employment Agreements Following Merger in this joint proxy statement/prospectus.

TorreyPines Director Compensation for 2008

The following table sets forth summary information concerning compensation paid or accrued for services rendered to TorreyPines in all capacities to the non-employee members of TorreyPines board of directors for the fiscal year ended December 31, 2008.

| Name(1) | Fees Earned or Paid in Cash (\$) | Option Awards (\$)(2) | All Other Compensation (\$) | Total (\$) |
|--------------------------|----------------------------------|-----------------------|-----------------------------|------------|
| Peter Davis, Ph.D. | 69,000 | 22,285(3) | | 91,285 |
| Jean Deleage, Ph.D. | 38,000(4) | 22,285(5) | | 60,285 |
| Steven H. Ferris, Ph.D. | 41,500 | 22,285(6) | | 63,785 |
| Jason S. Fisherman, M.D. | 39,500 | 22,285(7) | | 61,785 |
| Steven B. Ratoff | 52,500 | 22,285(8) | | 74,785 |
| Patrick Van Beneden | 38,500 | | | 38,500 |

- (1) Neil M. Kurtz, M.D., TorreyPines former President and Chief Executive Officer, is not included in this table as he was an employee of TorreyPines and thus received no compensation for his service as a director. Evelyn Graham, TorreyPines Chief Executive Officer, is not included in this table as she is an employee of the TorreyPines and thus received no compensation for her service as a director.
- (2) The amounts shown reflect the dollar amount recognized for financial statement reporting purposes for the year ended December 31, 2008, in accordance with FAS 123R, of stock options granted pursuant to the TorreyPines stock option plans and thus may include amounts from stock options granted in and prior to 2008.
- (3) Dr. Davis has outstanding options to purchase an aggregate of 21,624 shares of common stock as of December 31, 2008. The amount shown in the table reflects compensation expense TorreyPines recorded for the year ended December 31, 2008 for the following stock option grants:

| Grant Date | Total Shares of Common Stock | Exercise Price | Grant Date Fair Value |
|---------------|------------------------------|----------------|-----------------------|
| May 23, 2007 | 10,000 | 7.12 | 47,155 |
| June 19, 2008 | 10,000 | 1.35 | 7,856 |

- (4) Fees earned by Dr. Deleage for his TorreyPines board of directors service were paid to Alta Partners.
- (5) Dr. Deleage has outstanding options to purchase an aggregate of 20,000 shares of common stock as of December 31, 2008. The amount shown in the table reflects compensation expense TorreyPines recorded for the year ended December 31, 2008 for the following stock option grants:

| Grant Date | Total Shares of Common Stock | Exercise Price | Grant Date Fair Value |
|--------------|------------------------------|----------------|-----------------------|
| May 23, 2007 | 10,000 | 7.12 | 47,155 |

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June 19, 2008

10,000

1.35

7,856

154

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- (6) Dr. Ferris has outstanding options to purchase an aggregate of 45,687 shares of common stock as of December 31, 2008. The amount shown in the table reflects compensation expense TorreyPines recorded for the year ended December 31, 2008 for the following stock option grants:

| Grant Date | Total Shares of Common Stock | Exercise Price | Grant Date Fair Value |
|-------------------|---|---------------------------|----------------------------------|
| May 23, 2007 | 10,000 | 7.12 | 47,155 |
| June 19, 2008 | 10,000 | 1.35 | 7,856 |

- (7) Dr. Fisherman has outstanding options to purchase an aggregate of 20,000 shares of common stock as of December 31, 2008. The amount shown in the table reflects compensation expense TorreyPines recorded for the year ended December 31, 2008 for the following stock option grants:

| Grant Date | Total Shares of Common Stock | Exercise Price | Grant Date Fair Value |
|-------------------|---|---------------------------|----------------------------------|
| May 23, 2007 | 10,000 | 7.12 | 47,155 |
| June 19, 2008 | 10,000 | 1.35 | 7,856 |

- (8) Mr. Ratoff has outstanding options to purchase an aggregate of 56,662 shares of common stock as of December 31, 2007. The amount shown in the table reflects compensation expense TorreyPines recorded for the year ended December 31, 2008 for the following stock option grants:

| Grant Date | Total Shares of Common Stock | Exercise Price | Grant Date Fair Value |
|-------------------|---|---------------------------|----------------------------------|
| May 23, 2007 | 10,000 | 7.12 | 47,155 |
| June 19, 2008 | 10,000 | 1.35 | 7,856 |

TorreyPines Code of Business Conduct and Ethics

TorreyPines has adopted a code of ethics for its directors, officers (including its principal executive officer, principal financial officer and principal accounting officer) and employees, known as the Code of Business Conduct and Ethics. The Code of Business Conduct and Ethics is available on TorreyPines website at <http://www.tptxinc.com> under the Corporate Governance section of the Investor Center page. TorreyPines will promptly disclose on its website (i) the nature of any amendment to the policy that applies to its principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions and (ii) the nature of any waiver, including an implicit waiver, from a provision of the policy that is granted to one of these specified individuals, the name of such person who is granted the waiver and the date of the waiver. Stockholders may request a free copy of the Code of Business Conduct and Ethics from TorreyPines corporate compliance officer, Paul Schneider c/o TorreyPines Therapeutics, Inc., P.O. Box 231386, Encinitas, CA 92023-1386.

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REPORT OF THE AUDIT COMMITTEE OF THE TORREYPINES BOARD OF DIRECTORS

The following is the report of the Audit Committee of the board of directors of TorreyPines with respect to TorreyPines' audited financial statements for the fiscal year ended December 31, 2008, included in this joint proxy statement/prospectus. The information contained in this report shall not be deemed to be soliciting material or to be filed with the Securities and Exchange Commission, nor shall such information be incorporated by reference into any future filing under the Securities Act, or the Exchange Act, except to the extent that TorreyPines specifically incorporates it by reference in such filing.

The Audit Committee has reviewed and discussed with TorreyPines' management the audited financial statements for the fiscal year ended December 31, 2008. The Audit Committee has discussed with the independent registered public accounting firm the matters required to be discussed by the Statement on Auditing Standards No. 61, as amended (AICPA, *Professional Standards*, Vol. 1. AU section 380), as adopted by the Public Company Accounting Oversight Board (PCAOB) in Rule 3200T. The Audit Committee has also received the written disclosures and the letter from the independent accountants required by the PCAOB regarding the independent accountant's communications with the Audit Committee concerning independence and has discussed with the independent accountants the independent accountant's independence. Based on the foregoing, the Audit Committee has recommended to the TorreyPines' board of directors that the audited financial statements be included in this joint proxy statement/prospectus.

The Audit Committee of TorreyPines' board of directors:

Dr. Peter Davis

Dr. Steven Ferris

Mr. Steven Ratoff

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Audit Committee of the TorreyPines Board of Directors

The Audit Committee has appointed Ernst & Young LLP as the Company's independent auditors to perform audit and other services for the Company and its subsidiaries for the fiscal year 2008. In connection with the audit of the 2008 financial statements, the Company entered into an engagement agreement with Ernst & Young LLP, which sets forth the terms by which Ernst & Young LLP will perform audit services for the Company. That agreement is subject to alternative dispute resolution procedures.

The following table represents aggregate fees billed to TorreyPines for the fiscal years ended December 31, 2008 and December 31, 2007 by Ernst & Young LLP.

| | 2008 | 2007 |
|--------------------|-------------------|-------------------|
| Audit Fees | \$ 223,000 | \$ 217,000 |
| Audit-related Fees | | |
| Tax Fees | | |
| All Other Fees | | |
| Total Fees | \$ 223,000 | \$ 217,000 |

All fees described above were approved by the Audit Committee.

Pre-Approval Policies and Procedures

The Audit Committee has adopted a policy and procedures for the pre-approval of audit and non-audit services rendered by TorreyPines independent registered public accounting firm, Ernst & Young LLP. The policy generally pre-approves specified services in the defined categories of audit services, audit-related services, and tax services up to specified amounts. Pre-approval may also be given as part of the Audit Committee's approval of the scope of the engagement of the independent registered public accounting firm or on an individual explicit case-by-case basis before the independent registered public accounting firm is engaged to provide each service. The pre-approval of services may be delegated to one or more of the Audit Committee's members, but the decision must be reported to the full Audit Committee at its next scheduled meeting. All of the audit-related and tax fees incurred in 2008 and 2007 were approved in accordance with TorreyPines' pre-approval policies and procedures.

The Audit Committee has determined that the rendering of the services other than audit services by Ernst & Young LLP is compatible with maintaining the principal accountant's independence.

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TorreyPines Proposal No. 5: Approval of Possible Adjournment of the TorreyPines Annual Meeting

If TorreyPines fails to receive a sufficient number of votes to approve TorreyPines Proposal Nos. 1, 2 and 3 TorreyPines may propose to adjourn the TorreyPines annual meeting, for a period of not more than 30 days, for the purpose of soliciting additional proxies to approve TorreyPines Proposal Nos. 1, 2 and 3. TorreyPines currently does not intend to propose adjournment at the TorreyPines annual meeting if there are sufficient votes to approve TorreyPines Proposal Nos. 1, 2 and 3. The affirmative vote of the holders of a majority of the shares of TorreyPines common stock having voting power present in person or represented by proxy at the TorreyPines annual meeting is required to approve the adjournment of the TorreyPines annual meeting for the purpose of soliciting additional proxies to approve TorreyPines Proposal Nos. 1, 2 and 3.

THE TORREYPINES BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT TORREYPINES STOCKHOLDERS VOTE FOR TORREYPINES PROPOSAL NO. 5 TO ADJOURN THE ANNUAL MEETING, IF NECESSARY, TO SOLICIT ADDITIONAL PROXIES IF THERE ARE NOT SUFFICIENT VOTES IN FAVOR OF TORREYPINES PROPOSALS NOS. 1, 2 AND 3.

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MATTERS BEING SUBMITTED TO A VOTE OF RAPTOR STOCKHOLDERS

Raptor Proposal No. 1: Adoption of the Merger Agreement

At the Raptor annual meeting and any adjournment or postponement thereof, Raptor stockholders will be asked to consider and vote upon a proposal to adopt the merger agreement. The merger agreement provides that at the effective time of the merger, merger sub will be merged with and into Raptor. Upon the consummation of the merger, Raptor will continue as the surviving corporation and will be a wholly-owned subsidiary of TorreyPines. The terms of, reasons for, and other aspects of, the merger agreement are described in detail in the other sections of this joint proxy statement/prospectus.

Required Vote

Raptor cannot complete the merger unless the merger agreement is adopted by the affirmative vote of the holders of a majority of the shares of Raptor common stock outstanding on the record date and entitled to vote at the Raptor annual meeting.

RAPTOR S BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS A VOTE FOR THE ADOPTION OF THE MERGER AGREEMENT

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Your vote is requested in favor of four directors to serve until the next Raptor annual meeting of stockholders and until their successors are elected and qualified or their earlier resignation, removal, disqualification or death. Each of the nominees is currently a director of Raptor and each of their terms expires at this 2009 Raptor annual meeting.

Raptor's bylaws provide that the number of directors shall be determined from time to time by the board of directors, but may not be less than one. Raptor's board of directors currently consists of four persons.

Each nominee for election has agreed to serve if elected, and Raptor has no reason to believe that any nominee will be unavailable to serve. If any nominee is unable or declines to serve as a director at the time of the 2009 annual meeting, the proxy holders will vote for a nominee designated by the present Raptor board to fill the vacancy. Unless otherwise instructed, the proxy holders will vote the proxies received by them **FOR** the nominees named below. The table below sets forth the names and current position with Raptor of each of the nominees. A summary of the background and experience of each of these individuals is set forth after the table.

| Director | | | |
|---------------------------------------|------------|---------------|---|
| Name | Age | Since | Position |
| Christopher M. Starr, Ph.D.(1,3) | 56 | May 25, 2006 | Chief Executive Officer, President and Director |
| Raymond W. Anderson(1,2,3) | 66 | May 25, 2006 | Director |
| Erich Sager(1,2,3) | 51 | May 25, 2006 | Director |
| Richard L. Franklin, M.D., Ph.D.(2,3) | 63 | July 10, 2008 | Director |

- (1) Member of the Nominating and Corporate Governance Committee.
- (2) Member of the Audit Committee and Compensation Committee.
- (3) Member of the Stock Option Committee.

Christopher M. Starr, Ph.D. is Raptor's co-founder, and has served as Chief Executive Officer, President and director since Raptor's inception in 2006. Dr. Starr has served as Chief Executive Officer of Raptor's wholly-owned subsidiary, Raptor Pharmaceutical Inc., since its inception in September 2005. Dr. Starr co-founded BioMarin in 1997 where he last served as Senior Vice President and Chief Scientific Officer prior to joining the Company in 2006. As Senior Vice President at BioMarin, Dr. Starr was responsible for managing a Scientific Operations team of 181 research, process development, manufacturing and quality personnel through the successful development of commercial manufacturing processes for its enzyme replacement products, and supervised the cGMP design, construction and licensing of BioMarin's proprietary biological manufacturing facility. From 1991 to 1998, Dr. Starr supervised research and commercial programs at BioMarin's predecessor company, Glyko, Inc., where he served as Vice President of Research and Development. Prior to his tenure at Glyko, Inc., Dr. Starr was a National Research Council Associate at the National Institutes of Health. Dr. Starr earned a B.S. from Syracuse University and a Ph.D. in Biochemistry and Molecular Biology from the State University of New York Health Science Center, in Syracuse, New York.

Raymond W. Anderson has served as a director of Raptor since May 25, 2006 and is the Chief Financial Officer and Vice President, Finance & Administration of Dow Pharmaceutical Sciences, Inc. Mr. Anderson has more than 30 years of healthcare industry experience, primarily focused in financial management within the biopharmaceutical sector. Prior to joining Dow in 2003, he was Chief Financial Officer for Transurgical, Inc., a private medical technology company. Prior to that, Mr. Anderson served as Chief Operating Officer and Chief Financial Officer at BioMarin from June 1998 to January 2002. Prior to June 1998, Mr. Anderson held similar executive-level positions with other biopharmaceutical companies including Syntex, Chiron, Glycomed and Fusion Medical Technologies. Mr. Anderson holds an M.B.A. from Harvard University, an M.S. in Administration from George Washington University, and a B.S. in Engineering from the United States Military Academy.

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Erich Sager has served as a director of Raptor since May 25, 2006. He is a founding partner of Limetree Capital SA, a Swiss-based investment banking boutique. Mr. Sager also serves as Chairman and member of the board of directors of Directors at Calltrade Carrier Services AG, a European wholesale phone operator, and has held such position since 2004. He is also a current Board member of Zecotek Medical Systems Inc. and Pulse Capital Corp. Mr. Sager served on the board of directors of BioMarin Pharmaceutical Inc. from November 1997 to March 2006 and as Chairman of LaMont Asset Management SA, a private investment management firm, from September 1996 until August 2004. Mr. Sager has held the position of Senior Vice President, Head of the Private Banking for Dresdner Bank (Switzerland) Ltd., Vice President, Private Banking, Head of the German Desk for Deutsche Bank (Switzerland) Ltd., and various positions at banks in Switzerland. Mr. Sager received a business degree from the School of Economics and Business Administration, Zurich, Switzerland.

Richard L. Franklin, M.D., Ph.D. has served as a director of Raptor since July 2008 and has served as Chairman of the board of directors of SyntheMed, Inc., a biomaterials company engaged in the development and commercialization of medical devices, since June 2003 and as a director of SyntheMed, Inc., since December 2000. Since September 2002, Dr. Franklin has been Chairman of DMS Data Systems, an internet-based information services company. From May 1996 to September 2002, Dr. Franklin had been Chief Executive of Phairson, Ltd., a medical product development company. From January 1991 to May 1996, Dr. Franklin was founder and principal of Richard Franklin & Associates and from January 1988 to December 1990, Dr. Franklin was with Boston Capital Group, both of which are consulting firms to the healthcare industry. From July 1986 to December 1987, Dr. Franklin was head of Healthcare Corporate Finance at Tucker Anthony, an investment banking firm.

Meetings and Committees of the Board of Directors

During the fiscal year ended August 31, 2008, or Fiscal Year 2008, the Raptor board of directors held a total of three board meetings and took action by unanimous written consent on twelve occasions. All of Raptor's directors have agreed to serve until the next Raptor annual meeting of stockholders and until their successors have been duly elected and qualified or their earlier resignation, removal, disqualification or death. There are no arrangements between any director or executive officer and any other person pursuant to which the director or officer is to be selected as such. There is no family relationship between the directors, executive officers or persons nominated or appointed by the Raptor board of directors to become directors or executive officers. Each director attended at least 75% of (a) the total number of meetings of the Raptor board of directors and (b) the total number of meetings of all committees of the Raptor board of directors on which he served, for Fiscal Year 2008. Raptor does not have a formal policy to require the members of its board of directors to attend its annual meeting of stockholders; however, it is anticipated that at least one of Raptor's directors will attend the 2009 Annual Meeting.

The Raptor board of directors has an Audit Committee, a Compensation Committee, a Nominating and Corporate Governance Committee, and a Stock Option Committee. The function, composition, and number of meetings of each of these committees are described below.

Audit Committee

The audit committee of Raptor's board of directors, herein referred to as the Raptor Audit Committee, has been established in accordance with Section 3(a)(58)(A) of the Exchange Act of 1934, as amended, herein referred to as Exchange Act, and currently consists of the following two members: Mr. Anderson (Chairman) and Mr. Sager. The Raptor Audit Committee (a) has sole authority to appoint, replace and compensate Raptor's independent registered public accounting firm and is directly responsible for oversight of its work; (b) approves all audit fees and terms, as well as any permitted non-audit services performed by Raptor's independent registered public accounting firm; (c) meets and discusses directly with Raptor's independent registered public accounting firm its audit work and related matters and (d) oversees and performs such investigations with respect to Raptor's internal and external auditing procedures and affairs as the Raptor Audit Committee deems necessary

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or advisable and as may be required by applicable law. Raptor's Audit Committee's charter can be found in the Corporate Governance section of Raptor's website at www.raptorpharma.com. The Raptor Audit Committee took action 4 times, by meeting or by written consent, during Raptor's Fiscal Year 2008.

Raptor's board of directors has determined that both members of its Audit Committee are qualified as audit committee financial experts as defined by the regulations promulgated by the U.S. Securities and Exchange Commission, herein referred to as the SEC.

Compensation Committee

The compensation committee of Raptor's board of directors, herein referred to as the Compensation Committee, currently consists of the following two members: Mr. Sager (Chairman) and Mr. Anderson. The Compensation Committee annually reviews and determines salaries, bonuses and other forms of compensation paid to Raptor's executive officers and management. Both members of the Compensation Committee are non-employee directors and are considered to be independent. Raptor's Compensation Committee's charter can be found in the Corporate Governance section of Raptor's website at www.raptorpharma.com. The Raptor Compensation Committee took action 1 time, by meeting or by written consent, during Raptor's Fiscal Year 2008.

Nominating and Corporate Governance Committee

The Nominating and Corporate Governance Committee of Raptor's board of directors, herein referred to as the Nominating Committee, currently consists of the full board of directors: Mr. Sager, Mr. Anderson, Dr. Franklin and Dr. Starr. The Nominating Committee has authority to review the qualifications of, interview and nominate candidates for election to Raptor's board of directors. Raptor's Nominating Committee's charter can be found in the Corporate Governance section of Raptor's website at www.raptorpharma.com. The primary functions of the Nominating Committee are to:

recruit, review and nominate candidates for election to Raptor's board of directors;

monitor and make recommendations regarding committee functions, contributions and composition; and

develop the criteria and qualifications for membership on Raptor's board of directors.

The Nominating Committee develops the credentials and characteristics required of Raptor's board of directors and committee nominees in light of the composition of its board of directors and committees, its business, operations, applicable legal and listing requirements, and other factors they consider relevant. The Nominating Committee may identify other candidates, if necessary, through recommendations from its directors, management, employees, the stockholder nomination process, or outside consultants. The Nominating Committee will review candidates in the same manner regardless of the source of the recommendation. For membership on Raptor's board of directors, the Nominating Committee takes into consideration applicable laws and regulations, diversity, age, skills, experience, integrity, ability to make independent analytical inquiries, understanding of Raptor's business and business environment, willingness to devote adequate time and effort to Raptor's board of directors responsibilities and other relevant factors, including experience in the biotechnology and pharmaceutical industries. The Raptor Nominating Committee took action 1 time, by meeting or by written consent, during Raptor's Fiscal Year 2008.

Stock Option Committee

The stock option committee of Raptor's board of directors, herein referred to as the Stock Option Committee, currently consists of its full board of directors: Mr. Sager, Mr. Anderson, Dr. Franklin and Dr. Starr. Raptor's Stock Option Committee is responsible for the administration of its 2006 Equity Incentive Plan, including the approval of grants under such plan to Raptor's employees, consultants and directors. The Raptor Stock Option Committee took action 6 times, by meeting or by written consent, during Raptor's Fiscal Year 2008.

Table of Contents**Director Compensation**

Raptor generally compensates non-employee directors for their service as a member of Raptor's board of directors by granting to each such director options to purchase shares of its common stock upon joining Raptor's board of directors. Upon joining Raptor's board of directors on May 26, 2006, Mr. Anderson and Mr. Sager were granted stock options to purchase 500,000 shares and 1,000,000 shares, respectively, of Raptor's common stock at an exercise price of \$0.60 per share. Such stock options vested 6/30th on the six month anniversary of such grant and 1/36th per month thereafter and expire ten years from grant date. Upon joining Raptor's board of directors on July 10, 2008, Dr. Franklin was granted stock options to purchase 150,000 shares of Raptor's common stock at an exercise price of \$0.52 per share, which vests 6/48th on the six-month anniversary of such grant and 1/48th per month thereafter and expire ten years from grant date. In addition, at the discretion of the Stock Option Committee, each non-employee director may receive options to purchase 100,000 shares of Raptor's common stock for each subsequent year of service on its board of directors. Such options are generally granted at fair market value one day preceding the grant date, vest 6/48th on the six month anniversary of the grant date and 1/48th per month thereafter and expire ten years from grant date. Raptor made these grants to Mr. Anderson and Mr. Sager with respect to Raptor's fiscal year ended August 31, 2007, herein referred to as Fiscal Year 2007, on June 14, 2007 at a per share exercise price of \$0.60. No such annual grants were approved for Raptor's fiscal year ended August 31, 2008, herein referred to as Fiscal Year 2008. Raptor also reimburses its directors for out-of-pocket expenses incurred in connection with their service as directors.

The following table sets forth the total compensation paid by Raptor to each of its non-employee directors during Fiscal Year 2008. Dr. Starr, who is an employee of Raptor, did not receive additional compensation for his service as a director.

| Name* | Fees Earned or Paid | | Total* |
|------------------------------------|---------------------|----------------------|---------|
| | in Cash (\$)* | Option Awards \$(1)* | |
| Raymond W. Anderson(2) | 22,500 | 89,077 | 111,577 |
| Erich Sager(3) | 42,500 | 167,013 | 209,513 |
| Richard L. Franklin, M.D. Ph.D.(4) | 0 | 2,142 | 2,142 |

- * On July 10, 2008, Raptor's board of directors approved the following increases in annual cash compensation for its board members: Mr. Anderson's increased from \$20,000 to \$40,000 and Mr. Sager's increased from \$40,000 to \$60,000. On the same date, Raptor's board of directors appointed Dr. Franklin to its board of directors. Dr. Franklin receives cash compensation of \$40,000 per year, effective October 10, 2008, for his service as a member of Raptor's board of directors.
- (1) Amounts shown do not reflect compensation actually received by a director, but reflect the dollar amount compensation cost recognized by Raptor for financial statement reporting purposes (disregarding an estimate of forfeitures related to service-based vesting conditions) for Fiscal Year 2008, in accordance with Statement of Financial Accounting Standards No. 123 (revised 2004), *Share-Based Payment*, herein referred to as SFAS 123R, and thus may include amounts from awards granted in and prior to Fiscal Year 2008. The assumptions underlying the calculations pursuant to SFAS 123R are set forth under Note 7 of the Notes to Consolidated Financial Statements, beginning on page F-32 of Raptor's financial statements for Fiscal Year 2008 located elsewhere in this joint proxy statement/prospectus.
 - (2) Mr. Anderson had 600,000 options outstanding as of August 31, 2008, of which 404,166 were exercisable. As of June 30, 2009, 549,999 were exercisable.
 - (3) Mr. Sager had 1,100,000 options outstanding as of August 31, 2008, of which 779,167 were exercisable. As of June 30, 2009, 1,049,999 were exercisable.
 - (4) Dr. Franklin had 150,000 options outstanding as of August 31, 2008, of which none were exercisable. As of June 30, 2009, 34,374 were exercisable.

Mr. Anderson and Dr. Franklin will each receive annual retainers of \$40,000 and Mr. Sager will receive an annual retainer of \$60,000, as non-employee directors for with respect to Raptor's fiscal year ending August 31, 2009.

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Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Exchange Act requires Raptor's directors, executive officers and 10% stockholders of a registered class of equity securities to file reports of ownership and reports of changes in ownership of Raptor's common stock and other equity securities with the SEC. Directors, executive officers and 10% stockholders of a registered class of equity securities are required to furnish Raptor with copies of all Section 16(a) forms they file. Based on a review of the copies of such reports furnished to Raptor, except as discussed below, Raptor believes that during Fiscal Year 2008, its directors, executive officers and 10% stockholders of a registered class of equity securities timely filed all Section 16(a) reports applicable to them. On December 12, 2007 Mr. Daley, President of Raptor's clinical subsidiary, filed a Form 3 which should have been filed by September 20, 2007 and filed two Form 4s which one should have been filed by September 12, 2007 and the other should have been filed by October 17, 2007. The reason for the delays in Mr. Daley's filings was that Raptor had not determined whether Mr. Daley was a Section 16 filer until December 2007, which was three months after his employment commenced. Since December 2007, all of Mr. Daley's Section 16 filings have been timely.

Code of Ethics

Raptor has adopted a Code of Ethics, which is applicable to its directors and employees, including its principal executive officer, principal financial officer, principal accounting officer or controller or persons performing similar functions. The Code of Ethics is available in the Corporate Governance section of Raptor's website at www.raptorpharma.com. Raptor will disclose on its website any amendment to the Code of Ethics, as well as any waivers of the Code of Ethics, that are required to be disclosed by the rules of the SEC.

Certain Relationships, Related Party Transactions, and Director Independence

Raptor's Audit Committee is required to review on an on-going basis, and pre-approve all related party transactions before they are entered into including those transaction that are required to be disclosed pursuant to SEC regulations. If such transaction relates to compensation, it must be approved by Raptor's Compensation Committee as well. All related party transactions must also be approved by the disinterested members of Raptor's board of directors. It is the responsibility of Raptor's employees and directors to disclose any significant financial interest in a transaction between Raptor and a third party, including an indirect interest. All related party transactions shall be disclosed in Raptor's filings with the SEC as required under SEC rules. The Raptor board of directors has determined that each of Mr. Anderson and Mr. Sager is independent under the rules of the SEC.

Required Vote

The affirmative vote of a plurality of the voting power of the shares present in person or represented by proxy at the Raptor annual meeting is required for the election of the four nominees. This means that each of the four nominees will be elected if they receive more affirmative votes than any other person.

RAPTOR'S BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT A VOTE FOR EACH OF THE NOMINEES FOR DIRECTOR.

Table of Contents**Raptor Proposal No. 3: Ratification of Independent Registered Public Accounting Firm**

Raptor's Audit Committee has appointed the firm of Burr, Pilger & Mayer, LLP, an independent registered public accounting firm, to serve as Raptor's independent registered public accounting firm for Fiscal Year 2009 and Raptor's board of directors recommends the stockholders vote for ratification of that appointment. Burr, Pilger & Mayer, LLP served in this capacity during Fiscal Year 2008 and has been Raptor's independent auditor since September 8, 2005. A representative of Burr, Pilger & Mayer, LLP is expected to be present at the 2009 Annual Meeting, with the opportunity to make a statement should the representative desire to do so, and be available to respond to appropriate questions.

Raptor's Audit Committee appoints Raptor's independent registered public accounting firm annually and its board of directors subsequently requests ratification of such appointment by the stockholders at the Raptor's annual meeting. Raptor's Audit Committee reviews and approves in advance the scope of the audit, the types of non-audit services that Raptor will need and the estimated fees for the following fiscal year. The Audit Committee also reviews and approves any non-audit services provided by Raptor's independent registered public accounting firm to ensure that any such services will not impair the independence of the independent registered public accounting firm. To the extent that Raptor's management believes that a new service or the expansion of a current service provided by Raptor's independent registered public accounting firm is necessary, such new or expanded service is presented to Raptor's Audit Committee or one of its members for review and approval.

Before making its selection, Raptor's Audit Committee carefully considered Burr, Pilger & Mayer, LLP's qualifications as Raptor's independent registered public accounting firm, which included a review of Burr, Pilger & Mayer, LLP's performance in prior years, as well as its reputation for integrity and competence in the fields of accounting and auditing. Raptor's Audit Committee expressed its satisfaction with Burr, Pilger & Mayer, LLP in these respects.

Stockholder ratification of Raptor's Audit Committee's selection of Burr, Pilger & Mayer, LLP as the Raptor's independent registered public accounting firm is not required by law, Raptor's bylaws or other legal requirement. However, Raptor's board of directors is submitting Raptor's Audit Committee's selection of Burr, Pilger & Mayer, LLP to Raptor's stockholders for ratification as a matter of good corporate governance. If Raptor's stockholders fail to ratify the selection, Raptor's Audit Committee will reconsider whether or not to retain that firm. Even if the selection is ratified, Raptor's Audit Committee in its discretion may direct the appointment of different independent registered public accounting firm at any time during the year if it determines that such change would be in the best interests of Raptor and its stockholders.

The following table presents the aggregate fees billed for professional services rendered by Burr, Pilger & Mayer LLP in the period from September 8, 2005 (Raptor's inception) to August 31, 2006 and during Fiscal Years 2007 and 2008. Other than as set forth below, no professional services were rendered nor were any fees billed by Burr, Pilger & Mayer, LLP during the period from September 8, 2005 (inception) to August 31, 2006 or during Fiscal Years 2007 and 2008.

| | Fiscal Year Ended August 31, 2008 | Fiscal Year Ended August 31, 2007 |
|--------------------|--|--|
| Audit Fees | \$ 96,720 | \$ 75,843 |
| Audit-Related Fees | 41,798 | 5,883 |
| Tax Fees(1) | 4,980 | 18,540 |
| All Other Fees | 0 | 0 |
| Total Fees | \$ 143,498 | \$ 100,266 |

(1) Includes fees and out-of-pocket expenses for tax compliance, tax planning and advice.

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All work performed by the Burr, Pilger & Mayer, LLP as described above has been pre-approved by Raptor's Audit Committee prior to Burr, Pilger & Mayer LLP's engagement to perform such services. Raptor's Audit Committee pre-approves on an annual basis the audit, audit-related, tax and other permissible non-audit services to be rendered by Burr, Pilger & Mayer LLP based on historical information and anticipated requirements for the following fiscal year. To the extent that Raptor's management believes that a new service or the expansion of a current service provided by the Burr, Pilger & Mayer LLP is necessary, such new or expanded service is presented to Raptor's Audit Committee or one of its members for review and approval.

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REPORT OF THE AUDIT COMMITTEE OF THE RAPTOR BOARD OF DIRECTORS

The members of Raptor's Audit Committee have been appointed by Raptor's board of directors. Raptor's Audit Committee is governed by its charter, which has been approved and adopted by Raptor's board of directors and which will be reviewed and reassessed annually by Raptor's Audit Committee. Raptor's Audit Committee has determined that it has fulfilled its responsibilities under its charter for Fiscal Year 2008. Raptor's Audit Committee is comprised of two independent directors, Mr. Anderson and Mr. Sager.

The following Audit Committee Report does not constitute soliciting material and shall not be deemed filed or incorporated by reference into any other Raptor filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, except to the extent Raptor specifically incorporates this Audit Committee Report by reference therein.

Raptor's Audit Committee assists Raptor's board of directors in fulfilling its oversight responsibilities by reviewing (i) the financial reports and other financial information provided by Raptor to any governmental body or to the public, (ii) Raptor's systems of internal controls regarding finance, accounting, legal compliance and ethics and (iii) Raptor's auditing, accounting and financial reporting processes. It is not the responsibility of Raptor's Audit Committee to determine that Raptor's financial statements are complete and accurate, are presented in accordance with accounting principles generally accepted in the United States or present fairly the results of operations of Raptor for the periods presented or that Raptor maintains appropriate internal controls. Nor is it the duty of Raptor's Audit Committee to determine that the audit of Raptor's financial statements have been carried out in accordance with generally accepted auditing standards or that Raptor's independent registered public accounting firm are independent.

In this context, Raptor's Audit Committee hereby reports as follows:

We have reviewed and discussed the audited financial statements as of and for the year ended August 31, 2008 with management and the independent registered public accounting firm.

The Audit Committee discussed with the independent registered public accounting firm the matters required to be discussed by Statement on Auditing Standards No. 61, as amended ("Communication with Audit Committees").

The Audit Committee received from its independent registered public accounting firm the written disclosures and letter required by the Public Company Accounting Oversight Board regarding the Independent accountant's communications with the Audit Committee concerning independence, and the Audit Committee discussed with the independent registered public accounting firm the independence of the independent registered public accounting firm.

Based upon the review and discussion referred to in paragraphs (1) through (3) above, we recommended to Raptor's board of directors, and Raptor's board of directors has approved, that the audited financial statements be included in Raptor's Annual Report on Form 10-K for the fiscal year ended August 31, 2008, for filing with the SEC. Raptor's Audit Committee also has recommended, and Raptor's board of directors also has approved, subject to stockholder ratification, the appointment of Burr, Pilger & Mayer, LLP as Raptor's independent registered public accounting firm for Raptor's fiscal year ending August 31, 2009.

Audit Committee

Raymond W. Anderson (Chair)

Erich Sager

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Required Vote

Ratification of the appointment of Burr, Pilger & Mayer, LLP as Raptor's independent registered public accounting firm for the fiscal year ending August 31, 2009 requires the affirmative vote of the holders of a majority of the shares of Raptor common stock having voting power present in person or represented by proxy at the Raptor annual meeting.

RAPTOR'S BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT A VOTE FOR THE RATIFICATION OF BURR, PILGER & MAYER LLP AS RAPTOR'S INDEPENDENT PUBLIC ACCOUNTING FIRM FOR THE YEAR ENDING AUGUST 31, 2009.

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Raptor Proposal No. 4: Adjournment of the Raptor Annual Meeting, if Necessary, to Solicit Additional Proxies if There are Not Sufficient Votes in Favor of the Adoption of the Merger Agreement

At the Raptor annual meeting and any adjournment or postponement thereof, Raptor stockholders will be asked to consider and vote upon a proposal to adjourn the Raptor annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of the merger agreement.

Required Vote

The adjournment of the Raptor annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of the adoption of the merger agreement requires the affirmative vote of the holders of a majority of the shares of Raptor common stock having voting power present in person or represented by proxy at the Raptor annual meeting.

RAPTOR S BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS A VOTE FOR THE ADJOURNMENT OF THE RAPTOR ANNUAL MEETING, IF NECESSARY, TO SOLICIT ADDITIONAL PROXIES IF THERE ARE NOT SUFFICIENT VOTES IN FAVOR OF THE ADOPTION OF THE MERGER AGREEMENT.

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TORREYPINES BUSINESS

Proposed Merger with Raptor Pharmaceuticals Corp.

TorreyPines has effectively ceased all business operations related to the development of its product candidates to focus its efforts on the completion of the merger with Raptor and a possible strategic transaction related to its product candidates to the extent permitted under the merger agreement. Following the completion of the merger, the current management and board of directors of TorreyPines will have no control over the ultimate decisions regarding the combined company's operations and business, including whether the combined company will elect to dispose of TorreyPines' product candidates in a strategic transaction, reinstate their development, abandon them entirely or any combination of the foregoing. Most of the TorreyPines business described below relates to TorreyPines' current product candidates and related matters, and will only be relevant if the combined company attempts to continue to develop TorreyPines' product candidates, which it may never do. Prior to executing the merger agreement with Raptor, TorreyPines' board of directors approved a Plan of Liquidation and Dissolution and called a stockholder meeting to vote on that plan, which meeting was cancelled as a condition to the execution of the merger agreement. If TorreyPines is unable to complete the merger or another financing or strategic transaction, it does not expect to be able to continue as a going concern and may be required to liquidate in a voluntary dissolution under Delaware law or to seek protection under the provisions of the U.S. Bankruptcy Code.

Most, if not all, of the combined company's business immediately following the merger will be the business conducted by Raptor immediately prior to the merger, and most if not all of the descriptions of TorreyPines' business in this joint proxy statement/prospectus, as well as the trends and risks that apply to TorreyPines' business, will change from those described herein based on TorreyPines' business to date and otherwise may no longer be applicable to the combined company. In addition, because of the pending merger with Raptor and the other strategic transactions TorreyPines may pursue with respect to its product candidates, TorreyPines believes its historical operating results are not indicative of future results. TorreyPines encourages you to review the section titled, "Raptor's Business" in this joint proxy statement/prospectus for a description of the substantial portion of the expected business and operations of the combined company if the merger is approved and completed.

Overview

TorreyPines is a biopharmaceutical company that has been committed to providing patients with better alternatives to existing therapies through the development and commercialization of small molecule compounds. TorreyPines' goal is to develop versatile product candidates each capable of treating a number of diseases and disorders characterized by moderate to severe pain, including acute migraine, migraine prophylaxis and chronic pain, such as neuropathic pain. Due to TorreyPines' current financial condition, it has been exploring strategic alternatives, including the proposed merger with Raptor, in order to continue the development of TorreyPines' two ionotropic glutamate receptor antagonist product candidates. If TorreyPines is unable to complete the merger with Raptor, TorreyPines may be unable to continue as a going concern and may be forced to cease operations, seek protection under the provisions of the U.S. Bankruptcy Code or liquidate and dissolve.

TorreyPines' two ionotropic glutamate receptor antagonists, NGX426 and tezampanel, are clinical stage product candidates. NGX426 and tezampanel competitively block the binding of glutamate at the glutamate receptors, specifically the AMPA and kainate receptor subtypes. While normal glutamate levels are essential, excess glutamate has been implicated in a number of diseases and disorders. NGX426 and tezampanel are the first glutamate receptor antagonists with this combined binding activity to be tested in humans.

NGX426 is an orally bioavailable prodrug of tezampanel that is ready to enter Phase II testing. In clinical trials, NGX426 has been shown to rapidly convert to tezampanel, the active moiety. In December 2008 TorreyPines announced that a single dose of NGX426 administered to healthy male adults demonstrated a

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statistically significant reduction in spontaneous pain, hyperalgesia (abnormally increased pain state) and allodynia (pain resulting from normally non-painful stimuli to the skin) compared to placebo following injection under the skin of capsaicin in an experimental model of pain. TorreyPines also completed two additional Phase I trials in healthy volunteers to evaluate the safety and tolerability of NGX426 given in either a single dose or given once daily for five consecutive days.

Tezampanel, the active parent compound of NGX426, has been shown to be safe and well tolerated in more than 500 healthy subjects and patients in single and multiple doses. Three Phase I and six Phase II clinical trials have been completed and all six Phase II trials demonstrated the analgesic effect of tezampanel across a variety of pain models. In the largest of the Phase II trials, a single dose of tezampanel given by injection was statistically significant compared to placebo in treating acute migraine headache in 306 migraineurs. TorreyPines held a successful end of Phase II meeting with the U.S. Food and Drug Administration, or FDA, on September 29, 2008. Following a successful end of Phase II meeting, the U.S. Food and Drug Administration agreed that a Phase III program for tezampanel in acute migraine may be initiated.

These clinical data suggest that both NGX426 and tezampanel have potential therapeutic utility in treating moderate to severe acute pain, including acute migraine, migraine prophylaxis and chronic pain, such as neuropathic pain. In order to pursue further clinical development of NGX426 and tezampanel, TorreyPines will need to secure project financing, equity financing, or a development partner.

NGX426 and tezampanel Iontropic Glutamate Receptor Antagonists, AMPA and Kainate Subtype

TorreyPines in-licensed NGX426 and tezampanel from Eli Lilly & Company, or Eli Lilly, in 2003. Based on their mechanism of action as well as preclinical and clinical data, TorreyPines believes these first-in-class product candidates have the potential to be effective across numerous indications in a wide range of therapeutic areas.

Mechanism of Action

NGX426 and tezampanel are ionotropic glutamate receptor antagonists. These product candidates act as competitive antagonists of the AMPA and kainate subtype of ionotropic glutamate receptors. Glutamate receptors mediate the functioning of glutamate, an important excitatory neurotransmitter. While normal glutamate levels are essential, excess glutamate levels, either through injury or disease, can have a range of pathological effects. By acting at both the AMPA and kainate receptor site to competitively block the binding of glutamate, both NGX426 and tezampanel have the potential to treat a number of diseases and disorders. These include the acute pain associated with migraine, chronic pain, such as neuropathic pain, and a condition known as central sensitization, a persistent state of hypersensitivity to pain that is a core component of many pain conditions.

Migraine

Migraine is a chronic, intermittent pain condition characterized by acute pain episodes often accompanied by central sensitization. The 2005 American Migraine Prevalence and Prevention study, sponsored by the National Headache Foundation, estimated that there are approximately 30 million people who suffer from migraines in the United States, with fewer than half that number seeking treatment. This study also confirmed that a large number of migraine sufferers are not getting adequate treatment or the relief they need, despite the number of products available to treat migraines. It has been more than a decade since the FDA has approved a migraine treatment with a new mechanism of action.

The medications most commonly used to treat acute migraine are triptans and ergotamines. These drugs constrict or narrow the blood vessels in the brain, heart and periphery. When the blood vessels in the brain are constricted, the blood flow is decreased thus relieving the throbbing pain associated with migraine.

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An emerging theory is that the brain itself, not just the blood vessels, may cause or contribute to the migraine. Published data show that during a migraine, increased levels of glutamate activate AMPA and kainate receptors, resulting in the transmission of pain and, in many patients, the development of central sensitization. Tezampanel has been shown in preclinical studies to block the binding of glutamate to these receptors. In doing so, tezampanel relieves the migraine pain and may prevent or lessen the development of central sensitization without directly constricting the blood vessels. As a result, tezampanel, as well as its prodrug NGX426, may offer a safety advantage over drugs such as the triptans and ergotamines for patients with cardiovascular risk factors.

Migraine is often accompanied by central sensitization, which is characterized by allodynia and hyperalgesia. Allodynia is a painful response to a normally non-painful stimulus such as touch, sound, temperature, or light. Hyperalgesia is an exaggerated sensitivity to a normally painful stimulus. In contrast, preclinical data show that tezampanel's analgesic activity is especially pronounced in the presence of central sensitization. Because of its positive effects in treating central sensitization, tezampanel as well as NGX426 may have a role to play not only in treating the acute migraine pain, but also in preventing migraines by addressing the underlying cause.

Neuropathic Pain

Neuropathic pain is a complex, chronic pain condition in which the peripheral or central nervous system itself is damaged, dysfunctional or injured. The malfunctioning nerves become the cause of the pain, sending incorrect signals to pain centers. Because it is often difficult to recognize and determine the cause of the neuropathic pain, it is often under-treated. Some common causes of neuropathic pain include spinal or back injury or surgery, diabetes, HIV infection and herpes. A hallmark of neuropathic pain is central sensitization. The signs and symptoms of central sensitization in patients with neuropathic pain are similar to those in patients with migraine, namely allodynia and hyperalgesia. In a Phase II trial, tezampanel, given intravenously, was shown to relieve neuropathic pain and reduce the signs and symptoms of central sensitization.

Clinical Development Overview NGX426

The results of TorreyPines first Phase I single dose clinical trial of NGX426, given orally, demonstrated that NGX426 was well-tolerated and rapidly converted to tezampanel at 10 mg, 20 mg, and 30 mg. During 2008, TorreyPines completed a Phase I clinical trial that was designed to identify the maximum tolerated single dose of NGX426 when given to healthy adults. Subjects were dosed up to 210 mg, the maximum dose allowable under the protocol. All doses were safe and well tolerated therefore the maximum tolerated dose was not reached. In December 2008, TorreyPines announced that oral administration of a single dose of NGX426 to healthy male adults demonstrated a statistically significant reduction in spontaneous pain, hyperalgesia (abnormally increased pain state) and allodynia (pain resulting from normally non-painful stimuli to the skin) compared to placebo following injections under the skin of capsaicin in a human experimental model of induced pain, hyperalgesia and allodynia. Using a three-period cross-over design, subjects received two intradermal injections of capsaicin at 30 minutes and 120 minutes after administration of a single, oral dose of 90 mg or 150 mg of NGX426, or placebo. In February 2009, TorreyPines announced that oral administration of NGX426 was safe and well-tolerated in healthy male and female subjects when dosed once daily for five consecutive days. TorreyPines will need to secure additional funding in order to pursue the Phase II clinical development of NGX426.

Clinical Development Overview Tezampanel

Using intravenous administration of tezampanel, proof of concept clinical testing has been successfully completed in migraine, low back pain, neuropathic pain via a capsaicin model, post-operative dental pain and pain from spinal cord trauma. In order to evaluate tezampanel given by injection, TorreyPines completed a Phase I clinical trial and determined that a single dose of tezampanel given by injection was well tolerated at all doses up to and including 100 mg. To date tezampanel has been shown to be safe and well-tolerated in three Phase I and six Phase II clinical trials involving more than 450 patients and healthy adults.

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In October 2007, TorreyPines released results of a Phase IIb clinical trial of tezampanel, given by injection, in patients who suffered a single acute migraine attack. This clinical trial demonstrated that the 40 mg dose of tezampanel was statistically significant compared to placebo in improvement of headache pain response, the primary endpoint, at two hours post-dose. There were no serious or medically important adverse events reported.

In February 2008, TorreyPines released results of a multiple dose clinical trial of tezampanel, given by injection. The Phase I double-blind, placebo-controlled trial enrolled 30 normal healthy male and female adults. The data from this trial show that tezampanel given by injection once-daily for four consecutive days at doses of 40 mg, 70 mg and 100 mg was safe and well-tolerated. There were no discontinuations from the study and reported adverse events were generally mild and transient. These Phase I results support TorreyPines continued development of tezampanel across a variety of chronic conditions.

In September 2008, TorreyPines held a successful end of Phase II meeting with the FDA regarding the scope of a Phase III program for tezampanel in acute migraine. While the FDA agreed with TorreyPines planned Phase III program for tezampanel in acute migraine, given financial constraints TorreyPines will need to secure additional funding in order to pursue the Phase III clinical development of tezampanel for the potential treatment of acute migraine.

Strategic Alliance, License and Other Commercial Agreements

Drug development is long and costly and TorreyPines recognizes that it will need strategic partners to maximize the potential of one or more of its product candidates. TorreyPines' goal is to strike a balance between advancing product development at its expense and partnering with third parties at key points along the development path. Overall, TorreyPines' strategy is to reach key milestones with its product candidates before entering into strategic alliances. TorreyPines believes that, in this way, it can retain significant commercial value in the product candidates while obtaining strategic and financial assistance to advance its programs. TorreyPines speaks to prospective partners on a regular basis, understanding that beneficial strategic alliances are the result of developing on-going relationships. TorreyPines will need to secure additional funding or a development partner to enable it to pursue the commercial opportunities it has identified for NGX426 and tezampanel.

Since inception, substantially all of TorreyPines' revenue has been derived from TorreyPines agreements with Eisai Co., Ltd. These agreements expired by their terms in 2008.

Eli Lilly

In 2003, TorreyPines entered into a development and licensing agreement with Eli Lilly to obtain an exclusive license to Eli Lilly's ionotropic glutamate receptor antagonist assets NGX426 and tezampanel. TorreyPines paid Eli Lilly an up-front license fee of \$6.0 million under the agreement. If specified development, regulatory and commercial milestones are achieved, TorreyPines is obligated to make milestone payments to Eli Lilly. TorreyPines is also obligated to pay royalties to Eli Lilly on any sales of NGX426 and tezampanel. TorreyPines is required to use commercially reasonable efforts to develop and commercialize the product candidates subject to the agreement, including use of commercially reasonable efforts to achieve specified development events within specified timeframes.

The term of the development and licensing agreement will continue until all royalty payment obligations have expired on a country-by-country basis, unless the agreement is earlier terminated. Under certain termination circumstances, all of the rights granted to TorreyPines under the agreement will revert to Eli Lilly.

University of Iowa Research Foundation

TorreyPines has a license agreement with the University of Iowa Research Foundation, or UIRF, pursuant to which UIRF has granted TorreyPines an exclusive United States license to certain patents and patent applications relating to spinal administration of tezampanel. Under the terms of the agreement TorreyPines has the right to sublicense its license from UIRF.

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If TorreyPines achieves specified regulatory and patent-related milestones, it will be obligated to make milestone payments to UIRF which may total up to \$0.4 million. TorreyPines must also pay UIRF an annual license maintenance fee which may be reduced by the amount of other payments made by TorreyPines to UIRF under the agreement. TorreyPines is also obligated to pay royalties to UIRF on any sales of tezampanel using the licensed patent rights and to pay UIRF a percentage of specified payments TorreyPines receives upon sublicensing rights to the licensed patent rights. TorreyPines is required to use commercially reasonable efforts to commercialize products using the licensed patent rights.

This agreement will continue until the expiration of the last-to-expire of the licensed patents and patent applications unless earlier terminated.

Competition

TorreyPines and its strategic alliance partners face intense competition. TorreyPines is in competition with fully integrated pharmaceutical companies, smaller companies that may be collaborating with larger pharmaceutical companies, academic institutions, government agencies and other public and private research organizations. Many of these competitors have prescription products for acute and chronic pain, such as migraine and neuropathic pain, and xerostomia already approved by the FDA or they are pursuing the same or similar approaches to those which constitute TorreyPines development programs and operate larger development programs in these fields than TorreyPines. TorreyPines believes that competition for the products that it may develop will come from companies that are conducting research, engaging in clinical development, or currently marketing and selling therapeutics to treat these conditions. These competitors include the pharmaceutical industry's leading companies.

For example, triptans are the most commonly prescribed drugs for the treatment of moderate to severe migraine. There are seven triptans approved for use and Imitrex[®], marketed by GlaxoSmithKline, dominates the market. Other triptans are: Zomig[®], Maxalt[®], Amerge[®], Frova[®], Axert[®], and Relpax[®]. According to PhRMA's 2008 report, *Medicines in Development for Neurologic Disorders*, there are more than 30 companies seeking to develop compounds to treat migraine and pain disorders or to obtain additional indications to broaden the use of currently approved pain relieving prescription medications. This list includes most of the large pharmaceutical companies such as Abbott Laboratories, AstraZeneca, Eisai, Elan, Eli Lilly, GlaxoSmithKline, Merck, Pfizer, and Wyeth Pharmaceuticals as well as small and mid-sized biotechnology companies.

In the neuropathic pain market, TorreyPines would compete with companies such as Pfizer, marketing Neurontin and Lyrica[®], and Eli Lilly, marketing Cymbalta[®] in addition to opioids approved for treating neuropathic pain, off-label uses of products to treat neuropathic pain and generic products. Given the size of the neuropathic pain market, approximately \$3.5 billion in 2006 and expected to double by 2016, it is likely that most of the large pharmaceutical companies as well as many biotechnology companies will look to develop compounds to treat neuropathic pain.

Many of TorreyPines' competitors, either alone or together with their collaborative partners, have substantially greater financial resources than TorreyPines, as well as greater experience in developing pharmaceutical products, undertaking preclinical testing and human clinical trials, obtaining FDA and other regulatory approvals of products, formulating and manufacturing pharmaceutical products, and launching, marketing, distributing and selling products.

Proprietary Rights

Patent Applications

TorreyPines policy is to pursue patents, both those generated internally and those licensed from third parties, pursue trademarks, maintain trade secrets and use other means to protect TorreyPines technology, inventions and improvements that are commercially important to the development of TorreyPines business.

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If TorreyPines is able to overcome its current financial issues and continue as a going concern, TorreyPines success will depend significantly on its ability to:

obtain and maintain patent and other proprietary protection for the technology, inventions and improvements it considers important to its business;

defend its patents;

preserve the confidentiality of its trade secrets; and

operate without infringing the patents and proprietary rights of third parties.

As of August 10, 2009, TorreyPines controlled approximately 64 patents and patent applications pertaining to tezampanel and/or NGX426 (including 14 issued U.S. patents). Issued patents, and patents that may issue from these pending applications, would expire between 2013 and 2028. In accordance with the Hatch-Waxman Act in the United States, and corresponding legislation in certain foreign countries, patents covering TorreyPines drug products may be eligible for up to five years of patent term restoration.

Trademarks, Trade Secrets and Other Proprietary Information

TorreyPines owns the TORREYPINES THERAPEUTICS & Design trademark, which is registered in the U.S. and in Japan, Canada, and the European Community. TorreyPines also owns its Tree Logo trademark, which is registered in the U.S.

To protect TorreyPines trade secrets and proprietary information, TorreyPines requires its employees, scientific advisors, consultants and collaborators to execute confidentiality agreements when they begin to work with TorreyPines. Additionally, TorreyPines requires its employees, scientific advisors and consultants to assign to TorreyPines any inventions developed as a result of their relationship with TorreyPines. While these agreements provide a certain degree of protection of TorreyPines proprietary information and internally developed technologies, they do not provide protection in the event of unauthorized disclosure of such information.

Manufacturing and Supply

TorreyPines currently has no manufacturing capabilities and relies, or will rely, on third parties for the preclinical or clinical supplies of each of its product candidates. TorreyPines does not currently have relationships for redundant supply or a second source for any of its product candidates. However, TorreyPines believes that there are alternate sources of supply that can satisfy its preclinical and clinical trial requirements without significant delay or material additional costs.

Because TorreyPines product candidates are all in an early stage of development, there is no commercial process developed for the synthesis of active pharmaceutical ingredient, or API, for any of its product candidates. In addition, TorreyPines has not identified final market formulations and delivery systems for any of its product candidates. TorreyPines must rely upon third party vendors to achieve a final commercial process for API and it must obtain FDA approval for both the API process and the drug product. TorreyPines reliance on third party vendors may result in delays, significant and unanticipated costs, or yield lower than anticipated amounts of product.

Commercial quantities of any products TorreyPines seeks to develop will have to be manufactured in facilities and by processes that comply with the FDA and other regulations for current good manufacturing practices, or cGMPs. TorreyPines plans to rely on third parties to manufacture commercial quantities of any products it may successfully develop. TorreyPines believes that there are several manufacturing sources available to it on commercially reasonable terms to meet its clinical requirements as well as any commercial production requirements.

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Sales and Marketing

TorreyPines currently has no marketing, sales or distribution capabilities. If and when NGX426 or tezampanel obtain regulatory approval, or in situations or markets where a more favorable return may be realized through licensing commercial rights to a third party, TorreyPines may license a portion or all of its commercial rights in a territory to a third party in exchange for one or more of the following: up-front payments, research funding, development funding, milestone payments and royalties on product sales.

Government Regulation

FDA Requirements for New Drug Compounds

The research, testing, manufacture and marketing of pharmaceutical products are extensively regulated by numerous governmental authorities in the United States and other countries. In the United States, pharmaceutical products are subject to rigorous regulation by the FDA. The Federal Food, Drug, and Cosmetic Act, and other federal and state statutes and regulations, govern, among other things, the research, development, testing, manufacture, storage, recordkeeping, labeling, promotion and marketing and distribution of pharmaceutical products. Failure to comply with applicable regulatory requirements may subject a company to a variety of administrative or judicial sanctions, including:

suspension of review or refusal to approve pending applications;

product seizures;

recalls;

withdrawal of product approvals;

restrictions on, or prohibitions against, marketing its products;

fines;

restrictions on importation of its products;

injunctions;

debarment; and

civil and criminal penalties.

The steps ordinarily required before a new pharmaceutical product may be marketed in the United States include:

preclinical laboratory tests, animal studies and formulation development according to good laboratory practices, or GLPs;

submission to the FDA of an investigational new drug application, or IND, which must become effective before clinical, or human, testing may commence;

adequate and well-controlled clinical trials to establish the safety and efficacy of the product for each indication for which FDA approval is sought according to good clinical practices;

submission to the FDA of a new drug application, or NDA;

satisfactory completion of an FDA Advisory Committee review, if applicable;

satisfactory completion of an FDA inspection of the manufacturing facility or facilities at which the product is produced to assess compliance with cGMP; and

FDA review and approval of the NDA.

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Satisfaction of FDA pre-market approval requirements typically takes several years, and the actual time required may vary substantially based upon the type, complexity and novelty of the product or disease. Government regulation may delay or prevent marketing of potential candidates for a considerable period of time and impose costly procedures upon a manufacturer's activities. Success in early stage clinical trials does not assure success in later stage clinical trials. Data obtained from clinical development is not always conclusive and may be susceptible to varying interpretations that could delay, limit or prevent regulatory approval. Even if a product receives regulatory approval, later discovery of previously unknown problems with a product may result in restrictions on the product or even complete withdrawal of the product from the market.

Preclinical tests include laboratory evaluation of product chemistry and formulation, as well as toxicology studies to assess the safety of the product. The conduct of the preclinical tests and formulation of compounds for testing must comply with federal regulations and requirements. The results of preclinical testing are then submitted to the FDA as part of an IND.

An IND, which must be approved before human clinical trials may begin, will automatically become effective 30 days after the FDA receives it, unless the FDA raises concerns or questions about the IND. If the FDA has questions or concerns, they must be resolved to the satisfaction of the FDA before initial clinical testing can begin. In addition, the FDA may, at any time, impose a clinical hold on on-going clinical trials. If the FDA imposes a clinical hold, clinical trials cannot commence or recommence without FDA authorization and then only under terms authorized by the FDA. In some instances, the IND process can result in substantial delay and additional expense.

Clinical trials involve the administration of the investigational drug to healthy volunteers or patients under the supervision of a qualified investigator. Clinical trials must be conducted in compliance with federal regulations and requirements, under protocols detailing the objectives of the trial, the parameters to be used in monitoring safety and the effectiveness criteria to be evaluated, among other things. Each protocol involving testing in the United States must be submitted to the FDA as part of the IND. In addition, an institutional review board, or IRB, at each site at which the clinical trial is conducted must approve the protocols, protocol amendments and informed consent documents for patients. All clinical trial participants must provide their informed consent in writing.

Clinical trials to support an NDA for marketing approval are typically conducted in three sequential phases, but the phases may overlap. In Phase I clinical trials, the initial introduction of the drug into healthy human subjects or patients, the drug is tested to assess safety, including side effects associated with increasing doses, metabolism, pharmacokinetics and pharmacological actions. Phase II clinical trials usually involve trials in a limited patient population, usually several hundred people, to determine dosage tolerance and optimum dosage, identify possible adverse effects and safety risks, and provide preliminary support for the efficacy of the drug in the indication being studied. In certain patient populations, accelerated approval is available based on Phase II clinical trial data. A Phase IIa clinical trial is typically designed to obtain proof-of-concept data and determine if the product candidate has an effect on a limited number of patients. A clinical trial designed to generate efficacy data but that is not expected to satisfy FDA criteria for NDA approval is sometimes referred to as a Phase IIb clinical trial. If a compound demonstrates evidence of effectiveness and an acceptable safety profile in Phase II clinical trials, Phase III clinical trials are undertaken to further evaluate clinical safety and efficacy within an expanded patient population, usually several hundred to several thousand subjects, typically at geographically dispersed clinical trial sites. Phase I, Phase II or Phase III clinical trials of any product candidate may not be completed successfully within any specified time period, if at all.

After successful completion of the required clinical testing, generally an NDA is prepared and submitted to the FDA. FDA approval of the NDA is required before marketing of the product may begin in the United States. The NDA must include the results of extensive preclinical studies and clinical trials and other detailed information, including, information relating to the product's pharmacology, chemistry, manufacture, and controls. The cost of preparing and submitting an NDA is substantial. Under federal law, the submission of

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NDA's are generally subject to substantial application user fees, currently exceeding \$750,000, and the sponsor and/or manufacturer under an approved application are also subject to annual product and establishment user fees, currently exceeding \$40,000 per product and \$250,000 per establishment. Additional user fees exceeding \$300,000 apply for NDA supplements containing clinical data. Fees are waived for the first pre-market application from companies with gross sales of less than \$30 million. These fees are typically increased annually.

The FDA has 60 days from its receipt of an NDA to determine whether the application will be accepted for filing based on the agency's threshold determination that the NDA is sufficiently complete to permit substantive review. Once the submission is accepted for filing, the FDA begins an in-depth review of the NDA. Under federal law, the FDA has agreed to certain performance goals in the review of most NDAs. Applications for non-priority drug products are generally reviewed within 12 months. Applications for priority drugs, such as those that address an unmet medical need, are generally reviewed within 6 months. The review process can be significantly extended by FDA requests for additional information or clarification regarding information already provided in the submission.

The FDA may also refer applications for novel drug products or drug products that present difficult questions of safety or efficacy to an advisory committee, typically a panel that includes clinicians and other experts, for review, evaluation and a recommendation as to whether the application should be approved. The FDA is not bound by the recommendation of an advisory committee. Also, before approving an NDA, the FDA will inspect the facility or the facilities at which the product is manufactured to assure that the facilities, methods and controls are adequate to preserve the product's identity, strength, quality and purity.

If FDA evaluations of the NDA and the manufacturing facilities are favorable, the FDA may issue an approval letter, or, in some cases, an approvable letter followed by an approval letter. An approvable letter generally contains a statement of specific conditions that must be met in order to secure final approval of the NDA. If and when those conditions have been met to the FDA's satisfaction, the FDA will typically issue an approval letter. An approval letter authorizes commercial marketing of the drug with specific prescribing information for specific indications. If the FDA's evaluation of the NDA submission is not favorable, the FDA may refuse to approve the NDA or issue a not approvable letter. A not approvable letter outlines the deficiencies in the submission and may require additional testing or information in order for the FDA to reconsider the application. Even with submission of this additional information, the FDA ultimately may decide that the application does not satisfy the regulatory criteria for approval. With limited exceptions, the FDA may withhold approval of an NDA regardless of prior advice it may have provided or commitments it may have made to the sponsor.

As a condition of NDA approval, the FDA may require post-approval testing and surveillance to monitor the drug's safety or efficacy and may impose other conditions, including labeling restrictions which can materially impact the potential market and profitability of the drug. In addition, a product approval may be withdrawn if compliance with regulatory standards is not maintained or problems are identified following initial marketing.

The FDA has various programs, including FastTrack designation, accelerated approval and priority review that are intended to expedite or simplify the process for reviewing certain drugs. Specifically, drug products that are intended for the treatment of serious or life-threatening conditions and demonstrate the potential to address unmet medical needs may be eligible for FastTrack designation and/or accelerated approval. Products may qualify for accelerated approval based on adequate and well-controlled Phase II clinical trial results that establish that the product has an effect on a surrogate endpoint that is reasonably likely to predict clinical benefit. As a condition of approval, the FDA may require that a sponsor of a drug product receiving FastTrack or accelerated approval perform post-marketing clinical trials. In addition, if a drug product would provide a significant improvement compared to marketed products, it may be eligible to receive priority review, which shortens the time in which the FDA acts on the sponsor's application. Even if a drug product qualifies for one or more of these programs, the FDA may later decide that the drug no longer meets the conditions for qualification or the time period for FDA review or approval will not be shortened.

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After an NDA is approved, the approved drug will be subject to certain post-approval requirements, including a requirement to report adverse events and to submit annual reports. In addition, a supplemental NDA may be required for approval of changes to the originally approved indication, prescribing information, product formulation, and manufacturing and testing requirements. Following approval, drug products are required to be manufactured and tested for compliance with NDA and/or compendia specifications prior to release for commercial distributions. The manufacture and testing must be performed in approved manufacturing and testing sites that comply with cGMP requirements and are subject to FDA inspection authority.

Approved drugs must be promoted in a manner that is consistent with their terms and conditions of approval, and that is not false or misleading. In addition, the FDA requires substantiation of any claims of superiority of one product over another, generally through adequate and well-controlled head-to-head clinical trials. To the extent that market acceptance of TorreyPines product candidates may depend on their superiority over existing therapies, any restriction on TorreyPines ability to advertise or otherwise promote claims of superiority, or requirements to conduct additional expensive clinical trials to provide proof of such claims, could negatively affect the sales of TorreyPines products and/or TorreyPines expenses.

Once an NDA is approved, the product covered thereby becomes a listed drug which can, in turn, be cited by potential competitors in support of approval of an abbreviated new drug application, or ANDA. An ANDA provides for marketing of a drug product that has the same active ingredients, strength, dosage form, route of administration and conditions of use, and has been shown through bioequivalence testing to be therapeutically equivalent to the listed drug. Generally, an ANDA applicant is required only to conduct bioequivalence testing, and is not required to conduct or submit results of preclinical or clinical tests to prove the safety or efficacy of its drug product. Drugs approved in this way, commonly referred to as generic equivalents to the listed drug, are listed in the FDA's Approved Drug Products with Therapeutic Equivalence Evaluations, which is referred to as the Orange Book, and can often be substituted by pharmacists under prescriptions written for the original listed drug.

Federal law provides for a period of three years of exclusivity following approval of a listed drug that contains previously approved active ingredients but is approved in a new dosage, dosage form, indication or route of administration or combination, if one of the clinical trials conducted was essential to the approval of the application and was conducted or sponsored by the applicant. During this three year period, the FDA cannot grant effective approval of an ANDA based on that listed drug. Federal law also provides a period of exclusivity for five years following the approval of a drug containing a new chemical entity, except that an ANDA may be submitted after four years following the approval of the original product if the ANDA challenges a listed patent as invalid or not infringed.

Applicants submitting an ANDA are required to make a certification with regard to any patents listed for an innovative drug, stating that either there are no patents listed in the Orange Book for the innovative drug, any patents listed have expired, the date on which the patents will expire, or that the patents listed are invalid, unenforceable, or will not be infringed by the manufacture, use, or sale of the drug for which the ANDA is submitted. If an ANDA applicant certifies that it believes all listed patents are invalid or not infringed, it is required to provide notice of its ANDA submission and certification to the NDA sponsor and the patent owner. If the patent owner, its representatives, or the approved application holder, who is an exclusive patent licensee, then initiates a suit for patent infringement against the ANDA sponsor within 45 days of receipt of the notice, the FDA cannot grant effective approval of the ANDA until either 30 months have passed or there has been a court decision holding that the patents in question are invalid or not infringed. On the other hand, if a suit for patent infringement is not initiated within the 45 days, the ANDA applicant may bring a declaratory judgment action.

If the ANDA applicant certifies that it does not intend to market its generic product before some or all listed patents on the listed drug expire, then the FDA cannot grant effective approval of the ANDA until those patents expire. The first ANDA submitting a substantially complete application certifying that all listed patents for a particular product are invalid or not infringed may qualify for a period of 180 days of exclusivity against other generics, which begins to run after a final court decision of invalidity or non-infringement or after the applicant

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begins marketing its product, whichever occurs first, during which time subsequently submitted ANDAs cannot be granted effective approval. If more than one applicant files a substantially complete ANDA on the same day, each such first applicant will be entitled to share the 180-day exclusivity period, but there will only be one such period, beginning on the date of the first marketing by any of the first applicants.

FDA also imposes a number of complex requirements and restrictions on entities that advertise and promote prescription drugs, which include, among others, standards for and regulations of print and in-person promotion, product sampling, direct-to-consumer advertising, off-label promotion, industry sponsored scientific and educational activities, and promotional activities involving the Internet. The FDA has very broad enforcement authority under the Federal Food, Drug and Cosmetic Act, and failure to abide by FDA requirements can result in penalties and other enforcement actions, including the issuance of warning letters or other letters objecting to violations and directing that deviations from FDA standards be corrected, total or partial suspension of production, and state and federal civil and criminal investigations and prosecutions.

From time to time, legislation is drafted and introduced in Congress that could significantly change the statutory provisions governing the approval, manufacturing and marketing of drug products. In addition, FDA regulations and guidance are often revised or reinterpreted by the agency or the courts in ways that may significantly affect TorreyPines business and products candidates. It is impossible to predict whether legislative changes will be enacted, or FDA regulations, guidance or interpretations changed, or what the impact of such changes, if any, may be.

Foreign Regulation of New Drug Compounds

Approval of a product by comparable regulatory authorities may be necessary in foreign countries prior to the commencement of marketing of the product in those countries, whether or not FDA approval has been obtained. In general, each country has its own procedures and requirements, many of which are time consuming, expensive, and may require additional studies prior to marketing the product. Also, the time required may differ from that required for FDA approval. Thus, there can be substantial delays in obtaining required approvals from foreign regulatory authorities after the relevant applications are filed.

In Europe, marketing authorizations may be granted at a centralized level, a decentralized level or a national level. The centralized procedure provides a single marketing authorization valid in all European Union member states, and is mandatory for the approval of most medicinal products, including certain biotechnology products. The decentralized procedure allows an applicant to seek market authorizations in several designated member states at once, and a national market authorization provides an authorization valid in only one member state. All medicinal products that are not subject to the centralized procedure and which have received at least one marketing authorization in another member state may receive additional marketing authorizations from other member states through a mutual recognition procedure.

Reimbursement and Pricing

In the United States and elsewhere, sales of pharmaceutical products depend in significant part on the availability of reimbursement to the consumer from third-party payors, such as government and private insurance plans. Third-party payors are increasingly challenging the prices charged for medical products and services. It will be time-consuming and expensive for TorreyPines to go through the process of seeking reimbursement from Medicare and private payors. TorreyPines products may not be considered cost effective, and coverage and reimbursement may not be available or sufficient to allow it to sell its products on a competitive and profitable basis.

In many foreign markets, including the countries in the European Union, pricing of pharmaceutical products is subject to governmental control. In the United States, there have been, and TorreyPines expect that there will continue to be, a number of federal and state proposals to implement similar governmental pricing control. While TorreyPines cannot predict whether such legislative or regulatory proposals will be adopted, the adoption of such proposals could have a material adverse effect on TorreyPines business, financial condition and profitability.

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Hazardous Materials

TorreyPines manufacturing processes involve the controlled use of hazardous materials, chemicals and the production of waste products. TorreyPines is subject to federal, state and local laws and regulations governing the use, manufacture, storage, handling and disposal of hazardous materials and waste products. TorreyPines does not expect the cost of complying with these laws and regulations to be material.

Employees

As of December 31, 2008, TorreyPines had 10 full-time employees, 2 of whom were engaged in clinical development and 8 of whom were engaged in management, business development and accounting. As of August 27, 2009 TorreyPines had 3 full-time employees. None of TorreyPines employees are represented by a labor union or covered by a collective bargaining agreement, nor have TorreyPines experienced work stoppages. TorreyPines believe that relations with TorreyPines employees are good.

Properties

During 2009, TorreyPines operations were conducted in La Jolla, California. TorreyPines lease terminated on July 31, 2009 and TorreyPines currently does not maintain an office.

Legal Proceedings

Several lawsuits were filed against TorreyPines in February 2005 in the U.S. District Court for the Southern District of New York asserting claims under Sections 10(b) and 20(a) of the Securities Exchange Act of 1934, as amended, or the Exchange Act and Rule 10b-5 thereunder on behalf of a class of purchasers of TorreyPines common stock during the period from June 26, 2003, through and including February 4, 2005, referred to as the class period. Dr. Marvin S. Hausman, M.D., a former director and TorreyPines former Chief Executive Officer, and Dr. Gosse B. Bruinsma, M.D., also a former director and TorreyPines former Chief Executive Officer, were also named as defendants in the lawsuits. These actions were consolidated into a single class action lawsuit in January 2006. On April 10, 2006, the class action plaintiffs filed an amended consolidated complaint. TorreyPines filed its answer to that complaint on May 26, 2006. TorreyPines motion to dismiss the consolidated amended complaint was filed on May 26, 2006 and was submitted to the court for a decision in September 2006. On March 31, 2009 the U.S. District Court for the Southern District of New York dismissed the proceedings. On April 24, 2009 an appeal was filed with the United States Court of Appeals for the Second Circuit by the class action plaintiffs.

Company Website

TorreyPines maintains a website at www.tptxinc.com. TorreyPines makes available free of charge on its website its periodic and current reports as soon as reasonably practicable after such reports are filed with the Securities and Exchange Commission, or SEC. Information contained on, or accessible through, TorreyPines website is not part of this report or TorreyPines other filings with the SEC.

TorreyPines was initially incorporated in Nevada on July 29, 1997 as Axonyx Inc. In October 2006, TorreyPines was reincorporated in Delaware and changed its name to TorreyPines Therapeutics, Inc. TorreyPines principal executive offices are located at P.O. Box 231386, Encinitas, CA 92023-1386, and TorreyPines telephone number is (858) 623-5665.

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RAPTOR S BUSINESS

Overview

Raptor believes that it is building a balanced pipeline of drug candidates that may expand the reach and benefit of existing therapeutics. Raptor's product portfolio includes both candidates from its proprietary drug targeting platforms and in-licensed and acquired product candidates.

Raptor's current pipeline includes four clinical development programs plus three preclinical programs that are based upon its proprietary drug-targeting platforms.

Clinical Development Programs

Raptor's four clinical development programs are based on existing therapeutics that it is reformulating for potential improvement in safety and/or efficacy and for application in new disease indications.

These clinical development programs include the following:

DR Cysteamine for the potential treatment of: nephropathic cystinosis, or cystinosis, a rare genetic disorder; non-alcoholic steatohepatitis, or NASH, a metabolic disorder of the liver; Huntington's Disease, or HD, an inherited neurodegenerative disease; and

Convivia for the potential management of acetaldehyde toxicity due to alcohol consumption by individuals with aldehyde dehydrogenase, or ALDH2 deficiency, an inherited metabolic disorder.

Preclinical Programs

Raptor's preclinical platforms consist of targeted therapeutics, which it is developing for the potential treatment of multiple indications, including liver diseases, neurodegenerative diseases and breast cancer:

Raptor's receptor-associated protein, or RAP, platform consists of: HepTide for the potential treatment of primary liver cancer and hepatitis C; and NeuroTrans to potentially deliver therapeutics across the blood-brain barrier for treatment of a variety of neurological diseases.

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Raptor's mesoderm development protein, or Mesd, platform consists of WntTide for the potential treatment of breast cancer.

DRUG PRODUCT

| CANDIDATE | DISEASE INDICATION | STAGE OF DEVELOPMENT |
|---|---|---|
| Delayed release, enterically coated | cystinosis | Phase II |
| cysteamine bitartrate, or DR Cysteamine | | <i>(ongoing, open IND)</i> |
| DR Cysteamine | NASH | Orphan Product Designation Phase IIa |
| DR Cysteamine | HD | <i>(ongoing, open IND)</i> Phase II <i>(planned for 2009)</i> |
| Convivia™ | ALDH2 Deficiency, or Ethanol Intolerance | Orphan Product Designation Phase IIa <i>(completed, IND exemption granted by FDA)</i> |
| HepTide™ | Hepatocellular Carcinoma, or HCC | Preclinical <i>(ongoing)</i> |
| HepTide™ | Hepatitis C | Preclinical <i>(ongoing)</i> |
| WntTide™ | Breast Cancer | Preclinical <i>(ongoing)</i> |
| NeuroTrans™ | Neurodegenerative Diseases | Preclinical Roche collaboration <i>(ongoing)</i> |

Future Activities

Over the next 12 months, Raptor plans to conduct research and development activities based upon its DR Cysteamine product candidate, its Convivia™ product candidate, its RAP-based platform, its Mesd-based peptides, and future in-licensed technologies and acquired technologies. A brief summary of Raptor's primary objectives in the next 12 months for its research and development activities is provided below. Raptor's plans for research and development activities over the next 12 months can only be implemented if it is successful in raising significant funds during this period. In addition, there can be no assurances that Raptor's research and development activities will be successful. Raptor needs to make important progress towards achieving at least one of its major clinical objectives or its ability to continue as a going concern will be adversely impacted due to the potential inability for Raptor to raise additional capital.

Clinical Development Programs

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Raptor develops clinical-stage drug product candidates which are: internally discovered therapeutic candidates based on its novel drug delivery platforms and in-licensed or purchased clinical-stage products which may be new chemical entities in mid-to-late stage clinical development, currently approved drugs with potential efficacy in additional indications, and treatments that it could repurpose or reformulate as potentially more effective or convenient treatments for a drug s currently approved indications.

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Development of DR Cysteamine for the Potential Treatment of Nephropathic Cystinosis and Other Diseases

Raptor's DR Cysteamine product candidate is a proprietary delayed-release, enteric-coated microbead formulation of cysteamine bitartrate contained in a gelatin capsule. Raptor is investigating DR Cysteamine for the potential treatment of: cystinosis, NASH and HD.

Immediate-release cysteamine bitartrate, a cystine-depleting agent, is currently the only FDA and EMEA approved drug to treat cystinosis, a rare genetic disease. Immediate-release cysteamine is effective at preventing or delaying kidney failure and other serious health problems in cystinosis patients. However, patient compliance is challenging due to the requirement for frequent dosing and gastrointestinal side effects. Raptor's DR Cysteamine for the potential treatment of cystinosis is designed to mitigate some of these difficulties. It is expected to be dosed twice daily, compared to the current every-six-hour dosing schedule. In addition, DR Cysteamine is designed to pass through the stomach and deliver the drug directly to the small intestine, where it is more easily absorbed into the bloodstream and may result in fewer gastrointestinal side effects.

The FDA granted orphan drug designation for: DR Cysteamine for the treatment of cystinosis in 2006; DR Cysteamine for the treatment of Batten Disease in 2008; and cysteamine for the treatment of HD in 2008.

In June 2009, Raptor commenced its Phase IIb clinical trial of DR Cysteamine in cystinosis, in which it has enrolled three cystinosis patients and plan to enroll up to four additional cystinosis patients with a history of compliance using the currently available immediate-release form of cysteamine bitartrate. The clinical trial will evaluate safety, tolerability, pharmacokinetics and pharmacodynamics of a single dose of DR Cysteamine in patients. Release of data from the study is expected in the fourth calendar quarter of 2009. Raptor plans to follow the Phase IIb clinical study with a pivotal, Phase III clinical study in cystinosis patients anticipated to commence in the fourth calendar quarter of 2009. In October 2008, Raptor commenced a clinical trial in collaboration with UCSD to investigate a prototype formulation of DR Cysteamine for the treatment of NASH in juvenile patients.

Raptor also plans to support a clinical trial investigating DR Cysteamine in HD patients in collaboration with a French institution in the fourth quarter of 2009 or early 2010.

Development of ConviviaTM for Liver Aldehyde Dehydrogenase Deficiency

Convivia is Raptor's proprietary oral formulation of 4-methylpyrazole, or 4-MP, intended for the potential treatment of acetaldehyde toxicity resulting from alcohol consumption in individuals with ALDH2 deficiency, which is an inherited disorder of the body's ability to breakdown ethanol, commonly referred to as alcohol intolerance. 4-MP is presently marketed in the U.S. and E.U. in an intravenous form as an anti-toxin. ConviviaTM is designed to lower systemic acetaldehyde levels and reduce symptoms, such as tachycardia and flushing, associated with alcohol consumption by ALDH2-deficient individuals. ConviviaTM is a capsule designed to be taken approximately 30 minutes prior to consuming an alcoholic beverage.

In 2008, Raptor completed a Phase IIa dose escalation clinical trial of oral 4-MP with ethanol in ALDH2 deficient patients. The study results demonstrated that the active ingredient in ConviviaTM significantly reduced heart palpitations (tachycardia), which are commonly experienced by ALDH2 deficient people who drink, at all dose levels tested. The study also found that the 4-MP significantly reduced peak acetaldehyde levels and total acetaldehyde exposure in a subset of the study participants who possess specific genetic variants of the liver ADH and ALDH2 enzymes. Raptor believes that this subset represents approximately one-third of the ALDH2 deficient adult population. Raptor is actively seeking corporate partnerships with pharmaceutical companies in selected Asian countries to continue clinical development of ConviviaTM in those countries.

Preclinical Development Programs

Raptor is also developing a drug-targeting platform based on the proprietary use of RAP and Mesd. Raptor believes that these proteins may have therapeutic applications in cancer, infectious diseases and neurodegenerative diseases, among others.

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These applications are based on the assumption that Raptor's targeting molecules can be engineered to bind to a selective subset of receptors with restricted tissue distribution under particular conditions of administration. Raptor believes these selective tissue distributions can be used to deliver drugs to the liver or to other tissues, such as the brain.

In addition to selectively transporting drugs to specific tissues, selective receptor binding constitutes a means by which receptor function might be specifically controlled, either through modulating its binding capacity or its prevalence on the cell surface. Mesd is being engineered for this latter application.

Development of HepTide™ for Hepatocellular Carcinoma and Hepatitis C

Drugs currently used to treat primary liver cancer are often toxic to other organs and tissues. Raptor believes that the pharmacokinetic behavior of RAP (i.e., the determination of the fate or disposition of RAP once administered to a living organism) may diminish the non-target toxicity and increase the on-target efficacy of attached therapeutics.

In preclinical studies of Raptor's radio-labeled HepTide™ (a variant of RAP), HepTide™, its proprietary drug-targeting peptide was shown to distribute predominately to the liver. Radio-labeled HepTide™ which was tested in a preclinical research model of HCC, at the National Research Council in Winnipeg, Manitoba, Canada, showed 4.5 times more delivery to the liver than the radio-labeled control. Another study of radio-labeled HepTide™ in a non-HCC preclinical model, showed 7 times more delivery to the liver than the radio-labeled control, with significantly smaller amounts of radio-labeled HepTide™ delivery to other tissues and organs

HCC is caused by the malignant transformation of hepatocytes, epithelial cells lining the vascular sinusoids of the liver, or their progenitors. HepTide™ has shown to bind to lipoprotein receptor-related protein, or LRP1, receptors on hepatocytes. Raptor believes that the pharmacokinetics and systemic toxicity of a number of potent anti-tumor agents may be controlled in this way.

There are additional factors that favor the suitability of RAP as an HCC targeting agent:

RAP is captured by hepatocytes with efficiency, primarily on first-pass.

Late-stage HCC is perfused exclusively by the hepatic artery, while the majority of the liver is primarily perfused through the portal vein.

Raptor's studies have shown that the RAP receptor, LRP1, is well-expressed on human HCC and under-expressed on non-cancerous, but otherwise diseased, hepatocytes. Also, high levels of LRP1 expression are maintained on metastasized HCC. These factors will favor delivery of RAP peptide-conjugated anti-tumor agents to tumor cells, whether in the liver or at metastasized sites.

Raptor is evaluating conjugates between HepTide™ and a chemotherapeutic for testing in vitro and in appropriate preclinical models for the potential treatment of HCC.

Raptor is also evaluating conjugates between HepTide™ and an antiviral agent for testing in vitro and in appropriate preclinical models for the potential treatment of hepatitis C.

Development of NeuroTrans™ for the Potential Treatment of Diseases Affecting the Brain

Nearly 1,000 known genetic and neurodegenerative diseases affect the brain. Drugs often have difficulty reaching these disease-affected areas because the brain has evolved a protective barrier, commonly referred to as the blood-brain barrier.

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Part of the solution to the medical problem of neurodegenerative diseases is the creation of effective brain targeting and delivery technologies. One of the most obvious ways of delivering therapeutics to the brain is via the brain's extensive vascular network. Treating these diseases by delivering therapeutics into the brain in a minimally invasive way, including through a natural receptor mediated transport mechanism called transcytosis, is a vision shared by many researchers and clinicians in the neuroscience and neuromedical fields.

NeuroTrans is Raptor's proprietary RAP-based technology program to research the delivery of therapeutics across the blood-brain barrier. Raptor believes its NeuroTrans platform may provide therapies that will be safer, less intrusive and more effective than current approaches in treating a wide variety of brain disorders.

In preclinical studies, NeuroTrans has been conjugated to a variety of protein drugs, including enzymes and growth factors, without interfering with the function of either fusion partner. Studies indicate that radio-labeled NeuroTrans may be transcytosed across the blood-brain barrier and, that fusions between NeuroTrans and therapeutic proteins may be manufactured economically.

Raptor worked with Dr. William Mobley, while he was a professor and Chairman of the Department of Neurology and Neurological Sciences, and his lab at Stanford University to study the brain transport behavior of NeuroTrans candidates. In the first year of Raptor's collaboration, a number of RAP-based peptide transport candidates were tested for their ability to bind to receptors that are thought to reside on the cells that line the blood-brain barrier. From these experiments, a lead candidate peptide was selected. In the second year of Raptor's collaboration, it completed preclinical evaluations which it believes support that NeuroTrans conjugates injected into the blood stream have the ability to seek out, bind to, and rapidly enter the cells that line the blood-brain barrier. These experiments support the NeuroTrans peptide's ability to enhance the transport of cargo molecules into the cells that line the blood-brain barrier. This collaboration has lapsed.

In June 2009, Raptor entered into a collaboration and licensing agreement with F. Hoffman La Roche Ltd. and Hoffman La Roche Inc., or Roche, to evaluate therapeutic delivery across the blood-brain barrier utilizing NeuroTrans. Under terms of the agreement, Roche has funded studies of select molecules attached to NeuroTransTM. The agreement provides Roche with an exclusive worldwide license to NeuroTransTM for use in the delivery of diagnostic and therapeutic molecules across the blood-brain barrier. Roche's and Raptor's scientists will actively collaborate on the project. Raptor has received an initial upfront payment for the collaboration to cover its portion of the initial studies, and may earn development milestone payments and royalties in exchange for the licensing of NeuroTransTM to Roche.

Development of WntTideTM for the Potential Treatment of Cancer

Human Mesd is a natural inhibitor of the receptor LRP6. LRP6 has recently been shown to play a role in the progression of some breast tumors. Studies in the laboratory of Professor Guojun Bu at the Washington University in St. Louis Medical School have demonstrated the potential of Mesd and related peptides to target these tumors. These molecules and applications are licensed to Raptor from the University. Professor Bu sits on Raptor's Scientific Advisory Board.

WntTide is Raptor's proprietary, Mesd-based peptide that it is developing as a potential therapeutic to inhibit the growth and metastasis of tumors over-expressing LRP5 or LRP6.

In November 2006, Raptor licensed the use of Mesd from Washington University in St. Louis for the potential treatment of cancer and bone density disorders. In June 2007, Raptor's preclinical study demonstrated that both Mesd and WntTide accelerated bone loss in a model of osteoporosis, suggesting inhibition of a key cellular signaling pathway was taking place. These findings indicate that WntTide may treat diseases known to be caused by an over-activation of the Wnt pathway, including certain forms of breast cancer. In April 2009, Washington University conducted a preclinical study of WntTide in a breast cancer model which showed

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tumor inhibition. The results of this study were presented at the 2nd Annual Wnt Conference in Washington, D.C., in June 2009 and will be published in the second calendar half of 2009. Raptor is currently evaluating the next steps with researchers at Washington University in the continued development of WntTideTM.

Other Development Areas

Securing Additional and Complementary Technology Licenses from Others

Raptor intends to continue to extend its development of RAP, RAP-variants and Mesd to applications in other potential therapeutics. Raptor plans to establish additional research collaborations with prominent universities and research labs currently working on the development of potential targeting molecules, and to secure licenses from these universities and labs for technology resulting from the collaboration. No assurances can be made regarding Raptor's ability to establish such collaborations over the next 12 months, or at all. Raptor intends to focus its in-licensing and product candidate acquisition activities on identifying complementary therapeutics, therapeutic platforms that offer a number of therapeutic targets, and clinical-stage therapeutics based on existing approved drugs in order to create proprietary reformulations to improve safety and efficacy or to expand such drugs' clinical indications through additional clinical trials.

Business Development Activities

As part of Raptor's ongoing business development activities, it intends to seek out industry partners interested in potential clinical applications of its proprietary molecules and co-development or drug partnerships. In the cancer area, Raptor plans to contact institutions and companies with an expressed interest in developing therapeutics to its potential anti-cancer targets. Out-licensing arrangements with these companies may include technology transfer, partnerships, or joint ventures. Joint activities may include drug product candidate development, drug product candidate manufacturing, preclinical testing or clinical research studies. Raptor plans to enter partnerships with one or more pharmaceutical companies in Asian countries for development and commercialization of its ConviviaTM product candidate. Raptor also plans to seek distribution or co-development agreements with one or more companies for ex-US territories for its DR Cysteamine product candidate. There can be no assurance that Raptor will be able to identify appropriate industry partners or, if it is able to, that it will be able to enter into mutually acceptable agreements with them on terms that are satisfactory to Raptor, or at all.

Raptor also intends to continue its efforts to in-license or acquire clinical stage products and preclinical drugs or drug technologies. These products may be in later stage clinical development or already approved and on the market. Raptor may obtain these products through collaborations, joint ventures or through merger and/or acquisitions with other biotechnology companies.

Strategic Acquisitions

Purchase of ConviviaTM

In October 2007, Raptor purchased certain assets of Convivia, Inc., or Convivia, including intellectual property, know-how and research reports related to a product candidate targeting liver ALDH2 deficiency, a genetic metabolic disorder. Raptor hired Convivia's chief executive officer and founder, Thomas E. (Ted) Daley, as President of Raptor's clinical development division. In exchange for the assets related to the ALDH2 deficiency program, what Raptor now calls ConviviaTM, Raptor issued to Convivia 200,000 shares of Raptor's common stock, an additional 200,000 shares of Raptor's common stock to a third party in settlement of a convertible loan between the third party and Convivia, and another 37,500 shares of Raptor's common stock in settlement of other obligations of Convivia. Mr. Daley, as the former sole stockholder of Convivia, may earn additional shares of Raptor's common stock based on certain triggering events or milestones related to the development of the Convivia assets. In addition, Mr. Daley may earn cash bonuses based on the same triggering events pursuant to his employment agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement as a result of the milestone of Raptor's execution of a formulation agreement for manufacturing ConviviaTM with Patheon. In March 2008, Raptor issued to Mr. Daley 100,000 shares of its

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common stock pursuant to Raptor's Convivia purchase agreement as a result of the milestone of Raptor's execution of an agreement to supply Raptor with the active pharmaceutical ingredient for Convivia™ and two \$10,000 cash bonuses pursuant to his employment agreement for reaching his six-month and one-year employment anniversaries. In October 2008, Raptor issued to Mr. Daley 100,000 shares of its common stock valued at \$27,000 and a \$30,000 cash bonus as a result of fulfilling a clinical milestone.

Purchase of DR Cysteamine

In December 2007, through a merger between Encode Pharmaceuticals, Inc., or Encode, and Raptor's wholly-owned subsidiary, Raptor Therapeutics, Raptor purchased certain assets, including the clinical development rights to DR Cysteamine. Under the terms of and subject to the conditions set forth in the merger agreement, Raptor issued 3,444,297 shares of its common stock to the stockholders of Encode, or Encode Stockholders, options, or Encode Options, to purchase up to, in the aggregate, 357,427 shares of Raptor's common stock to the optionholders of Encode, or Encode Optionholders, and warrants, or Encode Warrants, to purchase up to, in the aggregate, 1,098,276 shares of Raptor's common stock to the warrantholders of Encode, or Encode Warrantholders, and together with the Encode Stockholders and Encode Optionholders, referred to herein collectively as the Encode Securityholders), as of the date of such agreement. Such common stock, Encode Options to purchase Raptor's common stock, and Encode Warrants to purchase Raptor's common stock combine for an aggregate amount of 4.9 million shares of Raptor's common stock issuable to the Encode Securityholders as of the closing of the merger. The Encode Securityholders are eligible to receive up to an additional 2.4 million shares of Raptor's common stock, Encode Options and Encode Warrants to purchase Raptor's common stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program, if completed within the five year anniversary date of the merger agreement.

As a result of the Encode merger, Raptor received the exclusive worldwide license to DR Cysteamine, referred to herein as the License Agreement, developed by clinical scientists at the UCSD, School of Medicine. In consideration of the grant of the license, prior to the merger with Raptor Therapeutics, Encode paid an initial license fee and Raptor is obligated to pay an annual maintenance fee of \$15,000 until it begins commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, Raptor is obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year Raptor begins commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, Raptor is obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, Raptor is obligated, among other things, to spend annually at least \$200,000 for the development of products (which Raptor satisfied, as of its fiscal year ended August 31, 2008 by spending approximately \$900,000 on such programs) pursuant to the License Agreement. As of May 31, 2009, Raptor accrued \$40,000 due to UCSD for the milestone related to the first patient dosing in the NASH trial which commenced in October 2008. To the extent that Raptor fails to perform any of its obligations under the License Agreement, then UCSD may terminate the license or otherwise cause the license to become non-exclusive.

Company History

Corporate Structure

Raptor was incorporated in the State of Nevada on April 1, 2002 under the name of Highland Clan Creations Corp., or HCCC. On June 9, 2006, HCCC merged with its wholly-owned subsidiary, Raptor Pharmaceuticals Corp. incorporated on May 5, 2006 in Delaware. As a result, HCCC was reincorporated from the State of Nevada to the State of Delaware and changed its name to Raptor Pharmaceuticals Corp. Raptor is a publicly traded company quoted on the OTC Bulletin Board under the ticker RPTP (Yahoo Finance RPTP.OB).

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On May 25, 2006, Raptor acquired 100% of the outstanding capital stock of Raptor Pharmaceutical Inc. (incorporated in Delaware on September 8, 2005), a development-stage research and development company and on June 9, 2006, Raptor disposed of Raptor former wholly-owned subsidiary, Bodysentials Health & Beauty Inc., which sold nutritional milkshakes and drinks on the Internet. On August 1, 2007, Raptor formed Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) as Raptor wholly-owned subsidiary for the purpose of developing clinical-stage drug product candidates through to commercialization.

Financing History

Initial Investors

On May 25, 2006, in exchange for all of the outstanding common stock of Raptor Pharmaceutical Inc., Raptor issued 8,000,000 shares of common stock to the Raptor Pharmaceutical Inc. stockholders including 3,000,000 shares of Raptor common stock to each of Christopher M. Starr, Ph.D., and Todd C. Zankel, Ph.D., Raptor's Chief Executive Officer and Chief Scientific Officer, respectively, 1,000,000 shares of Raptor common stock to Erich Sager, a member of Raptor's board of directors and 1,000,000 shares of common stock to an unrelated third party. These initial stockholders of Raptor Pharmaceutical Inc. purchased common stock of Raptor Pharmaceutical Inc. when it was a privately held company for the following amounts of proceeds: Dr. Starr \$5,000; Dr. Zankel \$5,000; Mr. Sager \$100,000 and the unrelated third party \$200,000.

\$5 Million Financing and Reverse Merger

Pursuant to an agreement dated March 8, 2006, with HCCC, on May 25, 2006, Raptor closed a \$5 million financing concurrent with a reverse merger. As part of that agreement, HCCC loaned Raptor \$0.2 million to be repaid with accrued interest upon the earlier of six months or the closing of the financing. Also, the agreement stated that pending the closing of at least a \$3.5 million financing, HCCC would be obligated to issue 800,000 units as fees to a placement agent and \$30,000 in commissions to an investment broker. In the financing HCCC sold 8,333,333 units at \$0.60 per unit. Each unit consisted of one share of Raptor's common stock and one common stock purchase warrant exercisable for one share of Raptor's common stock at \$0.60 per share. The warrants were exercisable for 18 months and expired on November 25, 2007. Gross proceeds from the financing were \$5 million and net proceeds after the repayment of the \$0.2 million loan plus interest and the deduction of commissions and legal fees totaled approximately \$4.6 million. Prior to the warrants expiring, Raptor received \$3,895,000 in gross proceeds from the exercise of warrants in exchange for 6,491,667 shares of Raptor's common stock.

12.5 million shares of Raptor's common stock that were held by the original stockholders of HCCC prior to the reverse merger are reflected in Raptor's common stock outstanding. Prior to the reverse merger, certain previous stockholders of HCCC agreed to retire 26,805,000 shares of Raptor's common stock.

In connection with this financing, Raptor granted registration rights to the investors in this financing, pursuant to which Raptor agreed to file a registration statement with the SEC covering the resale of the common stock and all shares of common stock issuable upon the exercise of the warrants sold in this financing. The registration statement was filed on a Form SB-2 in June 2006 and became effective as of July 10, 2006. In July 2008, Raptor filed a registration statement covering Raptor 2008 private placement described below that amended, on a post-effective basis, the July 2006 Form SB-2. In August 2008, such registration statement was declared effective by the SEC.

Issuance of Common Stock Pursuant to Stock Option Exercises

Since inception, Raptor received \$8,700 from the exercise of stock options resulting in the issuance of 14,500 shares of Raptor's common stock.

Table of Contents**2008 and 2009 Private Placement**

In May and June, 2008, referred to herein as the 2008 Closing, Raptor entered into a Securities Purchase Agreement, referred to herein as the 2008 Purchase Agreement, with eight investors, referred to herein as the 2008 Investors, for the private placement of units of Raptor, each unit comprised of one share of Raptor's common stock and one warrant to purchase one half of one share of Raptor's common stock, at a purchase price of \$0.50 per unit. At the 2008 Closing, Raptor sold an aggregate of 20 million shares of common stock and two-year warrants with an exercise price of \$0.75 or \$0.90 per share, depending on when such warrants were exercised, if at all, to purchase up to an aggregate of 10 million shares of common stock to the 2008 Investors for aggregate gross proceeds to Raptor of \$10 million. Pursuant to the 2008 Purchase Agreement, Raptor agreed to prepare and file a registration statement within 60 days after the 2008 Closing with the SEC covering the common stock (including common stock underlying warrants, including warrants issued to placement agents) sold pursuant to the 2008 Purchase Agreement, subject to volume limitations, and to use its commercially reasonable efforts to cause such registration statement to become effective with the SEC thereafter and to remain effective until the earlier to occur of the date (i) that is the second anniversary of the 2008 Closing, (ii) the date such securities may be sold under Rule 144 during any 90-day period and (iii) such time as all of such securities have been publicly sold. Raptor filed the registration statement in July 2008, which the SEC declared effective on August 7, 2008.

In connection with the May / June 2008 private placement, Raptor issued warrants and a cash fee to placement agents to compensate them for placing investors into the financing. Placement agents were issued warrants exercisable for 7% of Raptor's common stock issued and issuable under the warrants issued to investors as part of the financing units and a cash fee based upon a percentage of the proceeds of the sale of the units of the May/June 2008 private placement. In connection with the May/June 2008 private placement, Raptor issued placement agent warrants to purchase 2,100,000 shares of Raptor's common stock at an exercise price of \$0.55 per share for a five year term and cash fees to placement agents totaling \$700,000. One of the placement agents compensated, Limetree Capital, was issued warrants to purchase 1,882,650 shares of Raptor's common stock and paid a cash commission of \$627,550. One of Raptor's board members serves on the board of Limetree Capital.

In August, 2009, referred to herein as the 2009 Closing, Raptor entered into a Securities Purchase Agreement, referred to herein as the 2009 Purchase Agreement, with four investors, referred to herein as the 2009 Investors, for the private placement of units of Raptor, each unit comprised of one share of Raptor's common stock and one warrant to purchase one half of one share of Raptor's common stock, at a purchase price of \$0.32 per unit. At the 2009 Closing, Raptor sold an aggregate of 7,456,250 shares of common stock and two-year warrants with an exercise price of \$0.60 or \$0.75 per share, depending on when such warrants were exercised, if at all, to purchase up to an aggregate of 3,728,125 shares of common stock to the 2009 Investors for aggregate gross proceeds to Raptor of \$2,386,000. Pursuant to the 2009 Purchase Agreement, Raptor agreed to prepare and file a registration statement within 75 days after the 2009 Closing with the SEC covering the common stock (including common stock underlying warrants, including warrants issued to placement agents) sold pursuant to the 2009 Purchase Agreement, subject to volume limitations.

In connection with the August 2009 private placement, Raptor issued warrants and a cash fee to Limetree Capital, the sole placement agent, to compensate it for placing investors into the financing. The placement agent was issued warrants exercisable for 7% of Raptor's common stock issued and issuable under the warrants issued to investors as part of the financing units and a cash fee based upon a percentage of the proceeds of the sale of the units of the August 2009 private placement. In connection with the August 2009 private placement, Raptor issued to the placement agent warrants to purchase 556,500 shares of Raptor's common stock at an exercise price of \$0.35 per share for a five year term and paid a cash fee of \$59,360.

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On April 29, 2009, in order to reflect current market prices, Raptor notified the holders of warrants purchased in the May/June 2008 private placement that Raptor was offering, in exchange for such warrants, new warrants to purchase Raptor's common stock at an exercise price of \$0.30 per share, but only to the extent such exchange of the original warrants and exercise of the new warrants, including the delivery of the exercise price, occurred on or prior to July 17, 2009. The warrants that were not exchanged prior to or on July 17, 2009 retained their original exercise prices of \$0.90 per share and original expiration date of May 21, 2010. Raptor received approximately \$2.6 million of proceeds from warrant exercises that resulted in the issuance of 8,715,000 shares of Raptor's common stock pursuant to the exchange described above.

Proprietary Rights

Raptor purchased from BioMarin the intellectual property owned by BioMarin for the research and development of the RAP technologies, including three pending patent applications and two provisional patent applications in review in the U.S., and countries in Europe and Asia and two trademarks for NeuroTransTM. Raptor also entered into an exclusive worldwide license agreement with Washington University for Raptor's Mesd program for the treatment of cancer and bone diseases. Raptor has also protected its intellectual property through the filing of Raptor's own patent applications covering Raptor's 4-MP program as well as a new family of RAP peptides. In October 2007 Raptor acquired intellectual property assets from Convivia, Inc., a privately held pharmaceutical company, including four filed patents for 4-MP as a potential treatment for ALDH2 deficiency. Since the acquisition of Convivia, Inc. assets, Raptor filed a provisional patent for trans-dermal formulation of 4-MP and a provisional patent for genotype specific methods for treating human subjects using 4-methylpyrazole. In December 2007, Raptor acquired an exclusive worldwide license agreement to pending patent applications from UCSD relating to Raptor's DR Cysteamine program, through Raptor's acquisition by merger of Encode Pharmaceuticals, Inc., a privately held pharmaceutical company. In March 2008, Raptor amended Raptor's license with UCSD to add exclusive worldwide rights to develop DR Cysteamine for the potential treatment of NASH.

Regulatory Exclusivities

Orphan Drug Designation

Raptor has been granted access to an Orphan Drug Designation from the FDA for use of DR Cysteamine to potentially treat cystinosis and the use of Cysteamine to potentially treat HD and Batten Disease. The Orphan Drug Act of 1983 generally provides incentives, including marketing exclusivity and tax benefits, to companies that undertake development and marketing of products to treat relatively rare diseases, which are defined as meaning diseases for which fewer than 200,000 persons in the U.S. would be likely to receive the treatment. A drug that receives orphan drug status is entitled to up to seven years of exclusive marketing in the U.S. for that indication. Equivalent European regulations would give Raptor ten years of marketing exclusivity for that indication in Europe. DR Cysteamine has already been granted Orphan Drug Designation by the FDA and Raptor plan to submit an orphan drug application in Europe. Raptor cannot be sure that Raptor will be granted orphan drug status or that it would prove advantageous. In addition, the testing and approval process will likely require a significant commitment of time, effort, and expense on Raptor's part. If Raptor fails to obtain or maintain orphan drug exclusivity for some of Raptor's drug product candidates, Raptor's competitors may sell products to treat the same conditions and Raptor's results of operations and revenues will be affected.

Facilities

Raptor's primary offices are located at 9 Commercial Blvd., Suite 200, Novato, CA 94949. Raptor's phone number is (415) 382-8111 and Raptor's facsimile number is (415) 382-1368. Raptor's website is located at www.raptorpharma.com.

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Competition

Primary Liver Cancer

Surgical resection of the primary tumor or liver transplantation remains the only curative options for HCC patients. The acute and tragic nature of this aggressive cancer and the widely preserved unmet medical need continues to attract a significant level of interest in finding ways of treating this disease. For example, there are currently over 140 ongoing clinical trials actively recruiting patients with HCC listed in the ClinicalTrials.gov website. Many of these trials are designed to evaluate ways of locally administering chemotherapeutics or various ways of performing surgical resections of the tumors. One drug that was approved in 2007 for treatment of inoperable HCC is currently the standard-of-care for this disease due to its claims of enhancing overall survival time. This enhancement has been determined to be even smaller within the Asian population of inoperable HCC patients. Raptor believes that a number of biotechnology and pharmaceutical companies may have internal programs targeting the development of new therapeutics that may be useful in treating HCC in the future.

Hepatitis

It has been estimated that approximately 3% of the world's population is chronically infected with hepatitis C, which translates to nearly 200 million people infected worldwide. Due to the latency of hepatitis C virus, or HCV, infection and slow disease progression, along with a lag in awareness of the disease, the number of patients with HCV is increasing and expected to peak in the next 20-30 years. Over 50,000 people die of HCV infection every year. Up to 75% of chronically infected individuals carry the genotype I strain of HCV. The most effective current treatment for chronic HCV infection is Interferon, but nearly 60% of patients infected with genotype 1 do not show a sustained viral reduction with Interferon treatment, and the remaining 40% of such genotype 1 HCV cases are without any therapy.

The significant number of interferon non-responders has created a need for second generation therapies and a large number of pharmaceutical companies have active therapeutic programs to meet the requirements of this large and growing market. There are currently 28 compounds in clinical development for the treatment of chronic HCV infection. A large number of these clinical compounds are small molecule antivirals being developed by pharmaceutical companies including Novartis, Kemin, Vertex and Migenix. In addition, over a dozen non-interferon immunomodulators are currently under clinical development by companies including SciClone, Schering-Plough, Chiron and Innogenetics. These compounds are designed to attack different parts of the Hepatitis C virus and its ability to replicate or enhance the body's immune system to better recognize and destroy the virus. Most clinicians now believe that eventually these and future drugs will be used in combination to treat chronic HCV.

Brain Delivery

Raptor believes it will be competing with other pharmaceutical and biotechnology companies that provide, or are attempting to develop product candidates to provide, remedies and treatments for brain and neurodegenerative diseases.

Three approaches are primarily used to solve the problem of reaching the brain with therapeutic compounds:

Neurosurgery or invasive techniques.

Pharmacological techniques, which include less than 2% of currently available drugs.

Physiologically based techniques, such as transcytosis.

Invasive techniques include bone marrow transplants or implants of polymers with drugs imbedded in the material for slow release. These implants extend from the skull surface to deep into brain tissue sites and use a permeation enhancer. Mannitol induced osmotic shock that creates leaks in the blood-brain barrier allowing

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intravenous administered chemotherapeutics into the brain is used in the treatment of brain tumors, but is not appropriate for administration of drugs for chronic therapies. Companies active in developing treatments based on these invasive technologies include Alza Corporation, Ethypharm, Guilford Pharmaceuticals, Medtronic Inc., Neurotech, and Sumitomo Pharmaceutical.

Other invasive procedures utilize catheter-based delivery of the drug directly into the brain. This technique has proven useful in the treatment of brain tumors, but has not been successful in distributing drugs throughout the entire brain. Amgen Inc. recently conducted clinical trials for the treatment of Parkinson's disease using intrathecal delivery through the use of various catheter/pump techniques.

The physiological route is a popular approach to cross the blood-brain barrier via lipid mediated free diffusion or by facilitated transport. This is the most common strategy used for the development of new neuropharmaceuticals, but has experienced limited success as it requires that the drug have sufficient lipophilic or fat-soluble properties so that it can pass through lipid membranes. The current method of delivery by this route, however, is nonspecific to the brain and side effects are common since most organs are exposed to the drug. Furthermore, many of the potential lipophilic therapeutic molecules are substrates for the blood-brain barrier's multi-drug resistant proteins, which actively transport the therapeutic agent back into the blood. Consequently, large doses need to be used so that sufficient amounts of the drug reach the brain. These high doses can result in significant side effects as the drug is delivered to essentially all tissues of the body, which is extremely inefficient. Companies and organizations that are developing treatments based on various physiological approaches include Angiochem, Axonyx, AramGen Technology, to-BBB, Xenoport Inc., Bioasis, Oregon Health and Science University Neuro-oncology, Xenova Group Ltd., d-Pharm, Neurochem Inc., and Vasogen Inc.

ALDH2 Deficiency

ALDH2 deficiency affects hundreds of millions of people worldwide, and is especially prevalent in East Asian populations. The association of this metabolic disorder with serious health risks, including liver diseases and digestive tract cancers, has emerged fairly recently (over the last 8-10 years). Raptor is not aware of any pharmaceutical products currently approved for this indication, either in the U.S. or internationally. However, given the size of the potential patient population and the emerging awareness of this disorder as a serious health risk, Raptor expects there are or will be other pharmaceutical companies, especially those with commercial operations in Asian countries, developing products to treat the symptoms of this condition. Many of these competitors may have greater resources, and existing commercial operations in the Asian countries which Raptor expects will be the primary markets for this product.

Additionally, there are non-pharmaceutical products available such as supplements and traditional remedies, especially in some Asian countries, which claim to be effective in reducing the symptoms associated with ALDH2 deficiency and other physical reactions to ethanol consumption. Although Raptor is not aware of any study which has demonstrated the efficacy of such non-pharmaceutical alternatives, these products may compete with Raptor's ALDH2 deficiency product.

Cystinosis

The only pharmaceutical product currently approved by FDA and EMEA to treat cystinosis is Cystagon® (rapid release cysteamine bitartrate capsules), marketed in the U.S. by Mylan Pharmaceuticals, and by Recordati and Swedish Orphan International in markets outside of the U.S. Cystagon® was approved by FDA in 1994 and is the standard of care for cystinosis treatment. Raptor expects that Raptor's improved DR Cysteamine formulation, if it receives marketing approval, will capture much of the Cystagon® market share because of Raptor's potential reduced dose frequency and improved tolerability. However, Cystagon® will remain a well-established competitive product which may retain many patients, especially those for whom the dose schedule and side effects do not pose significant problems.

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Raptor is not aware of any pharmaceutical company with an active program to develop an alternative therapy for cystinosis. There are companies developing and/or marketing products to treat symptoms and conditions related to, or resulting from cystinosis, but none developing products to treat the underlying metabolic disorder. Academic researchers in the US and Europe are pursuing potential cures for cystinosis through gene therapy and stem cell therapy, as well as pro-drug approaches as alternatives to cysteamine bitartrate for cystinosis treatment. The development timeline for these approaches is many years.

Huntington's Disease

There are no currently available treatment alternatives for HD, although there are products available such as Haldol, Klonopin and Xenazine to treat uncontrollable movements and mood swings that result from the disease. There are several pharmaceutical companies pursuing potential cures and treatments for HD, as well as numerous academic- and foundation-sponsored research efforts.

Companies with HD product candidates in development include Medivation, Inc.,; Amarin Eli Lilly & Co.,; and Pfizer. Several other companies have drug candidates in preclinical development. Additionally, nutritional supplements including creatinine and coenzyme Q10 have been investigated as potential treatments for HD. The Huntington Study Group sponsors numerous studies of potential therapies for HD, including coenzyme Q10 and the antibiotic minocycline.

NASH

There are no currently available treatment options for NASH. Weight loss, healthy diet, abstinence from alcohol and increased physical activity are typically suggested to slow the onset of NASH. There are numerous therapies being studied for NASH, including anti-oxidants (Vitamin E, betaine, Moexipril from Univasc), insulin sensitizing agents (Actos[®] from Takeda Pharmaceuticals for type 2 diabetes, in an ongoing phase III study for NASH sponsored by University of Texas) and drugs to improve blood flow (Trental[®] from Aventis for treatment of intermittent claudication, which failed to meet endpoints in a phase II study for NASH). Gilead Sciences is developing a pan-caspase inhibitor for NASH. Other products being studied for NASH include Byetta from Amylin, in an ongoing phase II/III study for NASH; and silyphos, or milk thistle, in a UCSD phase II study for NASH.

Because, many of Raptor's competitors have greater capital resources and larger overall research and development staffs and facilities, than Raptor, there can be no assurances that Raptor will be successful in competing in the areas discussed above. See the section under Risk Factors titled, If Raptor's competitors succeed in developing products and technologies that are more effective than Raptor's own, or if scientific developments change Raptor's understanding of the potential scope and utility of Raptor's drug product candidates, then Raptor's technologies and future drug product candidates may be rendered less competitive.

Government Regulations of the Biotechnology Industry

Regulation by governmental authorities in the U.S. and foreign countries is a significant factor in the development, manufacture, and expected marketing of Raptor's drug product candidates and in Raptor's ongoing research and development activities. The nature and extent to which such regulation will apply to Raptor will vary depending on the nature of any drug product candidates developed. Raptor anticipates that all of its drug product candidates will require regulatory approval by governmental agencies prior to commercialization.

In particular, human therapeutic products are subject to rigorous preclinical and clinical testing and other approval procedures of the FDA and similar regulatory authorities in other countries. Various federal statutes and regulations also govern or influence testing, manufacturing, safety, labeling, storage, and record-keeping related to such products and their marketing. The process of obtaining these approvals and the subsequent compliance with the appropriate federal statutes and regulations requires substantial time and financial resources. Any failure

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by Raptor or its collaborators to obtain, or any delay in obtaining, regulatory approval could adversely affect the marketing of any drug product candidates developed by Raptor, Raptor's ability to receive product revenues, and Raptor's liquidity and capital resources.

The FDA's Modernization Act codified the FDA's policy of granting fast track review of certain therapies targeting orphan indications and other therapies intended to treat severe or life threatening diseases and having potential to address unmet medical needs. Orphan indications are defined by the FDA as having a prevalence of less than 200,000 patients in the U.S. Raptor anticipates that certain neurodegenerative diseases and primary liver cancer which could potentially be treated using Raptor's technology could qualify for fast track review under these revised guidelines. There can be no assurances, however, that Raptor will be able to obtain fast track designation and, even with fast track designation, it is not guaranteed that the total review process will be faster or that approval will be obtained, if at all, earlier than would be the case if the drug product candidate had not received fast-track designation.

Before obtaining regulatory approvals for the commercial sale of any of Raptor's products under development, Raptor must demonstrate through preclinical studies and clinical trials that the product is safe and efficacious for use in each target indication. The results from preclinical studies and early clinical trials might not be predictive of results that will be obtained in large-scale testing. Raptor's clinical trials might not successfully demonstrate the safety and efficacy of any product candidates or result in marketable products.

In order to clinically test, manufacture, and market products for therapeutic use, Raptor will have to satisfy mandatory procedures and safety and effectiveness standards established by various regulatory bodies. In the U.S., the Public Health Service Act and the Federal Food, Drug, and Cosmetic Act, as amended, and the regulations promulgated thereunder, and other federal and state statutes and regulations govern, among other things, the testing, manufacture, labeling, storage, record keeping, approval, advertising, and promotion of Raptor's current and proposed product candidates. Product development and approval within this regulatory framework takes a number of years and involves the expenditure of substantial resources.

The steps required by the FDA before new drug products may be marketed in the U.S. include:

completion of preclinical studies;

the submission to the FDA of a request for authorization to conduct clinical trials on an IND, which must become effective before clinical trials may commence;

adequate and well-controlled Phase I, Phase II and Phase III clinical trials to establish and confirm the safety and efficacy of a drug candidate;

submission to the FDA of an NDA for the drug candidate; and

review and approval of the NDA by the FDA before the product may be shipped or sold commercially.

In addition to obtaining FDA approval for each product, each product manufacturing establishment must be registered with the FDA and undergo an inspection prior to the approval of an NDA. Each manufacturing facility and its quality control and manufacturing procedures must also conform and adhere at all times to the FDA's cGMP regulations. In addition to preapproval inspections, the FDA and other government agencies regularly inspect manufacturing facilities for compliance with these requirements. If, as a result of these inspections, the FDA determines that any equipment, facilities, laboratories or processes do not comply with applicable FDA regulations and conditions of product approval, the FDA may seek civil, criminal, or administrative sanctions and/or remedies against Raptor, including the suspension of the manufacturing operations. Manufacturers must expend substantial time, money and effort in the area of production and quality control to ensure full technical compliance with these standards.

Preclinical testing includes laboratory evaluation and characterization of the safety and efficacy of a drug and its formulation. Preclinical testing results are submitted to the FDA as a part of an IND which must become

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effective prior to commencement of clinical trials. Clinical trials are typically conducted in three sequential phases following submission of an IND. Phase I represents the initial administration of the drug to a small group of humans, either patients or healthy volunteers, typically to test for safety (adverse effects), dosage tolerance, absorption, distribution, metabolism, excretion and clinical pharmacology, and, if possible, to gain early evidence of effectiveness. Phase II involves studies in a small sample of the actual intended patient population to assess the efficacy of the drug for a specific indication, to determine dose tolerance and the optimal dose range and to gather additional information relating to safety and potential adverse effects. Once an investigational drug is found to have some efficacy and an acceptable safety profile in the targeted patient population, Phase III studies are initiated to further establish clinical safety and efficacy of the therapy in a broader sample of the general patient population, in order to determine the overall risk-benefit ratio of the drug and to provide an adequate basis for any physician labeling. During all clinical studies, Raptor must adhere to Good Clinical Practice, or GCP, standards. The results of the research and product development, manufacturing, preclinical studies, clinical studies and related information are submitted in an NDA to the FDA.

The process of completing clinical testing and obtaining FDA approval for a new drug is likely to take a number of years and require the expenditure of substantial resources. If an application is submitted, there can be no assurance that the FDA will review and approve the NDA. Even after initial FDA approval has been obtained, further studies, including post-market studies, might be required to provide additional data on safety and will be required to gain approval for the use of a product as a treatment for clinical indications other than those for which the product was initially tested and approved. Also, the FDA will require post-market reporting and might require surveillance programs to monitor the side effects of the drug. Results of post-marketing programs might limit or expand the further marketing of the products. Further, if there are any modifications to the drug, including changes in indication, manufacturing process, labeling or a change in manufacturing facility, an NDA supplement might be required to be submitted to the FDA.

The rate of completion of any clinical trials will be dependent upon, among other factors, the rate of patient enrollment. Patient enrollment is a function of many factors, including the size of the patient population, the nature of the trial, the availability of alternative therapies and drugs, the proximity of patients to clinical sites and the eligibility criteria for the study. Delays in planned patient enrollment might result in increased costs and delays, which could have a material adverse effect on Raptor.

Raptor does not know whether its IND for future products or the protocols for any future clinical trials will be accepted by the FDA. Raptor does not know if its clinical trials will begin or be completed on schedule or at all. Even if completed, Raptor does not know if these trials will produce clinically meaningful results sufficient to support an application for marketing approval. The commencement of Raptor's planned clinical trials could be substantially delayed or prevented by several factors, including:

- a limited number of, and competition for, suitable patients with particular types of disease for enrollment in clinical trials;

- delays or failures in obtaining regulatory clearance to commence a clinical trial;

- delays or failures in obtaining sufficient clinical materials;

- delays or failures in reaching agreement on acceptable clinical trial agreement terms or clinical trial protocols with prospective sites; and

- delays or failures in obtaining Institutional Review Board, or IRB, approval to conduct a clinical trial at a prospective site.

The completion of Raptor's clinical trials could also be substantially delayed or prevented by several factors, including:

- slower than expected rates of patient recruitment and enrollment;

- failure of patients to complete the clinical trial;

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unforeseen safety issues;

lack of efficacy during clinical trials;

inability or unwillingness of patients or medical investigators to follow Raptor's clinical trial protocols;

inability to monitor patients adequately during or after treatment; and

regulatory action by the FDA for failure to comply with regulatory requirements.

Failure to comply with applicable FDA requirements may result in a number of consequences that could materially and adversely affect Raptor. Failure to adhere to approved trial standards and GCPs in conducting clinical trials could cause the FDA to place a clinical hold on one or more studies which would delay research and data collection necessary for product approval. Noncompliance with GCPs could also have a negative impact on the FDA's evaluation of an NDA. Failure to adhere to GMPs and other applicable requirements could result in FDA enforcement action and in civil and criminal sanctions, including but not limited to fines, seizure of product, refusal of the FDA to approve product approval applications, withdrawal of approved applications, and prosecution.

Whether or not FDA approval has been obtained, approval of a product by regulatory authorities in foreign countries must be obtained prior to the commencement of marketing of the product in those countries. The requirements governing the conduct of clinical trials and product approvals vary widely from country to country, and the time required for approval might be longer or shorter than that required for FDA approval. Although there are some procedures for unified filings for some European countries, in general, each country at this time has its own procedures and requirements. There can be no assurance that any foreign approvals would be obtained.

In most cases, if the FDA has not approved a drug product candidate for sale in the U.S., the drug product candidate may be exported for sale outside of the U.S. only if it has been approved in any one of the following: the European Union, Canada, Australia, New Zealand, Japan, Israel, Switzerland and South Africa. Specific FDA regulations govern this process.

In addition to the regulatory framework for product approvals, Raptor and Raptor's collaborative partners must comply with federal, state, and local laws and regulations regarding occupational safety, laboratory practices, the use, handling and disposition of radioactive materials, environmental protection and hazardous substance control, and other local, state, federal and foreign regulation. All facilities and manufacturing processes used by third parties to produce Raptor's drug candidates for clinical use in the United States must conform with cGMPs. These facilities and practices are subject to periodic regulatory inspections to ensure compliance with cGMP requirements. Their failure to comply with applicable regulations could extend, delay, or cause the termination of clinical trials conducted for Raptor's drug candidates. The impact of government regulation upon Raptor cannot be predicted and could be material and adverse. Raptor cannot accurately predict the extent of government regulation that might result from future legislation or administrative action.

Scientific Advisory Board

The following describes the background of Raptor's Scientific Advisory Board.

Stephen C. Blacklow, M.D., Ph.D. Over the last ten years, Dr. Blacklow's research team has achieved international recognition both for their mechanistic and structural studies of proteins of the LDL receptor family, and for their work on the structure and function of human Notch proteins. Recently, Dr. Blacklow's team determined the structure of RAP d3 complex with receptor. Dr. Blacklow graduated from Harvard College summa cum laude in 1983, and received his M.D. and Ph.D. in bioorganic chemistry from Harvard University in 1991. Dr. Blacklow is a board-certified pathologist and an Associate Professor of Pathology at Harvard Medical School where he is the Director of the Harvard M.D.-Ph.D. program, basic sciences track. He has directed a research laboratory at the Brigham and Women's Hospital, a teaching affiliate of the Harvard Medical School, since 1998.

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Guojun Bu, Ph.D. Guojun Bu, Ph.D., is a molecular and cell biologist and a leader in the field of the LDL receptor family. Dr. Bu obtained his undergraduate degree from the Beijing Normal University in China. He then studied biochemistry and molecular biology in the Department of Biochemistry at Virginia Tech where he received his Ph.D. Dr. Bu moved to the Washington University School of Medicine for a postdoctoral training in cell biology where he later became a member of the faculty. He is currently Professor of Pediatrics, and of Cell Biology and Physiology. Among the numerous awards that he has received, Dr. Bu has been a Faculty Scholar of the Alzheimer's Association and an Established Investigator of the American Heart Association. He currently serves as the Editor-in-Chief of Molecular Neurodegeneration.

William C. Mobley, M.D., Ph.D. After completing undergraduate training in Chemistry and Zoology at the University of Nebraska at Lincoln, William C. Mobley, M.D., Ph.D., received his M.D. and Ph.D. in Neuroscience from Stanford University. Dr. Mobley trained in Pathology and Pediatrics at the Stanford University Hospital and completed a residency and fellowship in Neurology at Johns Hopkins University Hospital, where he also was Chief Resident in Pediatric Neurology. In 1985, he joined the faculty of the University of California, San Francisco School of Medicine where he rose to the rank of Professor of Neurology, Pediatrics and the Neuroscience Program and served as the Director of Child Neurology. In 1991, he was named Derek Denny Brown Scholar of the American Neurological Association. From 1997 to 2005, he served as the Chair of the Department of Neurology and Neurological Sciences at Stanford University, and he holds the John E. Cahill Family Endowed Chair. He was recently appointed Director of the Neuroscience Institute at Stanford. His laboratory studies the signaling biology of neurotrophic factors in the normal nervous system and in animal models of neurological disorders, including Alzheimer's disease, Down's syndrome and peripheral neuropathy. He is the recipient of both the Zenith Award and the Temple Award from the Alzheimer's Association and is a Fellow of the Royal College of Physicians. He was chosen to receive the Cotzias Award of the American Academy of Neurology for 2004. Dr. Mobley is Past President of the Association of University Professors of Neurology and is President of The Professors of Child Neurology. He was recently elected to the Institute of Medicine of the National Academy of Sciences.

Sam Teichman, M.D., FACC, FACP Sam Teichman, M.D., is an independent consultant in the area of strategic drug discovery and development. He has worked on over 40 medical products in various stages of development from the earliest identification of leads in research to supporting commercial-stage products. Most recently, Dr. Teichman served as Vice President and Chief Development Officer at ARYx Therapeutics, where he was involved in identifying and advancing three products from the research stage into clinical development. During the past 20 years, Dr. Teichman has held senior level executive positions at Genentech, Medco Research (now part of King Pharmaceuticals), Glycomed (now part of Ligand Pharmaceuticals), and Mimetix. He has provided scientific advisory services and has acted in an interim executive role for numerous early-stage and established biotechnology companies. Dr. Teichman holds an M.D. from Columbia University and a B.S. in Chemistry from Columbia College, Columbia University. He is board certified in Internal Medicine and Cardiology. Dr. Teichman is a Fellow of the American College of Cardiology (FACC) and the American College of Physicians (FACP). Dr. Teichman served as Associate Clinical Professor of Medicine at University of California in San Francisco from 1990 to 2001. He has more than 40 original publications, reviews and abstracts published in peer-reviewed and invited medical journals.

Legal Proceedings

Raptor knows of no material, active or pending legal proceedings against it, nor is Raptor involved as a plaintiff in any material proceedings or pending litigation.

Research and Development

Raptor is a research and development company and its plan is to focus its efforts in the discovery, research, preclinical and clinical development of its RAP based platforms, complementary technologies and clinical drug candidates to provide therapies that Raptor believes will be safer, less intrusive, and more effective than current

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approaches in treating a wide variety of brain disorders and neurodegenerative diseases, genetic disorders and cancer. During the period from September 8, 2005 (inception) to May 31, 2009, Raptor incurred approximately \$8.3 million in research and development costs. Please see the section titled, "Raptor's Management's Discussion and Analysis of Financial Condition and Results of Operations" in this joint proxy statement/prospectus for Raptor's planned research and development activities in the next twelve months.

Compliance with Environmental Laws

Raptor estimates the annual cost of compliance with environmental laws, comprised primarily of hazardous waste removal, will be approximately \$5,000.

Employees

Raptor presently has nine full time employees, including five executives, two scientists and one program director in Raptor's research and development department and one senior manager in Raptor's finance department. Raptor also has one part-time research intern in Raptor's research and development department. Based on Raptor's current plan, over the next 12 month period, Raptor anticipates hiring a regulatory director. Raptor also plans to supplement Raptor's human resources needs through consultants and contractors as needed.

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**TORREYPINES MANAGEMENT'S DISCUSSION AND ANALYSIS OF
FINANCIAL CONDITION AND RESULTS OF OPERATIONS**

The following discussion and analysis of financial condition and results of operations should be read together with the section titled, "Selected Historical Consolidated Financial Data of TorreyPines" in this joint proxy statement/prospectus and TorreyPines' financial statements and accompanying notes appearing elsewhere in this joint proxy statement/prospectus. This discussion of TorreyPines' financial condition and results of operations contains certain statements that are not strictly historical and are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 and involve a high degree of risk and uncertainty. Actual results may differ materially from those projected in the forward-looking statements due to other risks and uncertainties that exist in TorreyPines' operations, development efforts and business environment, including those set forth in the section titled, "Risk Factors - Risks Related to TorreyPines" in this joint proxy statement/prospectus, the other risks and uncertainties described in the section titled, "Risk Factors" in this joint proxy statement/prospectus and the other risks and uncertainties described elsewhere in this joint proxy statement/prospectus. All forward-looking statements included in this joint proxy statement/prospectus are based on information available to TorreyPines as of the date hereof, and TorreyPines assumes no obligation to update any such forward-looking statement.

Proposed Merger with Raptor Pharmaceuticals Corp.

TorreyPines has effectively ceased all business operations related to the development of its product candidates to focus its efforts on the completion of the merger with Raptor and a possible strategic transaction related to its product candidates to the extent permitted under the merger agreement. Following the completion of the merger, the current management and board of directors of TorreyPines will have no control over the ultimate decisions regarding the combined company's operations and business, including whether the combined company will elect to dispose of TorreyPines' product candidates in a strategic transaction, reinstate their development, abandon them entirely or any combination of the foregoing. Most of TorreyPines' financial condition and result of operations described below relates to TorreyPines' current product candidates and related matters, and will only be relevant if the combined company attempts to continue to develop TorreyPines' product candidates, which it may never do. Prior to executing the merger agreement with Raptor, TorreyPines' board of directors approved a Plan of Liquidation and Dissolution and called a stockholder meeting to vote on that plan, which meeting was cancelled as a condition to the execution of the merger agreement. If TorreyPines is unable to complete the merger or another financing or strategic transaction, it does not expect to be able to continue as a going concern and may be required to liquidate in a voluntary dissolution under Delaware law or to seek protection under the provisions of the U.S. Bankruptcy Code.

Most, if not all, of the combined company's business immediately following the merger will be the business conducted by Raptor immediately prior to the merger, and most if not all of the descriptions of TorreyPines' business in this joint proxy statement/prospectus, as well as the trends and risks that apply to TorreyPines' business, will change from those described herein based on TorreyPines' business to date and otherwise may no longer be applicable to the combined company. In addition, because of the pending merger with Raptor and the other strategic transactions TorreyPines may pursue with respect to its product candidates, TorreyPines believes its historical operating results are not indicative of future results. TorreyPines encourages you to review the section titled, "Raptor's Management's Discussion and Analysis of Financial Condition and Results of Operations" appearing elsewhere in this joint proxy statement/prospectus for a description of the substantial portion of the expected business and operations and financial condition of the combined company if the merger is approved and completed.

Overview

TorreyPines is a biopharmaceutical company that has been committed to providing patients with better alternatives to existing therapies through the development and commercialization of small molecule compounds. TorreyPines' goal is to develop versatile product candidates each capable of treating a number of diseases and

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disorders characterized by moderate to severe pain, including acute migraine, migraine prophylaxis and chronic pain, such as neuropathic pain. Due to TorreyPines' current financial condition as described further in this report, TorreyPines has been exploring strategic alternatives, including the proposed merger with Raptor, in order to continue the development of its two ionotropic glutamate receptor antagonist product candidates. If TorreyPines is unable to complete the merger with Raptor, it may be unable to continue as a going concern and may be forced to cease operations, seek protection under the provisions of the U.S. Bankruptcy Code or liquidate and dissolve.

TorreyPines two ionotropic glutamate receptor antagonists, NGX426 and tezampanel, are clinical stage product candidates. NGX426 and tezampanel competitively block the binding of glutamate at the AMPA and kainate glutamate receptor subtypes. While normal glutamate levels are essential, excess glutamate has been implicated in a number of diseases and disorders. NGX426 and tezampanel are the first glutamate receptor antagonists with this combined AMPA and kainate binding activity to be tested in humans.

NGX426 is an orally bioavailable prodrug of tezampanel that is ready to enter Phase II testing. In clinical trials, NGX426 has been shown to rapidly convert to tezampanel, the active moiety. In December 2008 TorreyPines announced that a single dose of NGX426 administered to healthy male adults demonstrated a statistically significant reduction in spontaneous pain, hyperalgesia (abnormally increased pain state) and allodynia (pain resulting from normally non-painful stimuli to the skin) compared to placebo following injection under the skin of capsaicin in an experimental model of pain. TorreyPines also completed two additional Phase I trials in healthy volunteers to evaluate the safety and tolerability of NGX426 given in either a single dose or given once daily for five consecutive days.

Tezampanel, the active parent compound of NGX426, has been shown to be safe and well tolerated in more than 500 healthy subjects and patients in single and multiple doses. Three Phase I and six Phase II clinical trials have been completed and all six Phase II trials demonstrated the analgesic effect of tezampanel across a variety of pain models. In the largest of the Phase II trials, a single dose of tezampanel given by injection was statistically significant compared to placebo in treating acute migraine headache in 306 migraineurs. TorreyPines held a successful end of Phase II meeting with the U.S. Food and Drug Administration (FDA) on September 29, 2008. Following the Phase II meeting, the FDA agreed that a Phase III program for tezampanel in acute migraine may be initiated.

These clinical data suggest that both NGX426 and tezampanel have potential therapeutic utility in treating moderate to severe acute pain, including acute migraine, migraine prophylaxis and chronic pain, such as neuropathic pain. In order to pursue further clinical development of NGX426 and tezampanel, TorreyPines will need to secure project financing, equity financing, or a development partner.

Going Concern and Management's Plan

TorreyPines independent registered public accounting firm has included an explanatory paragraph in their report on TorreyPines 2008 financial statements related to the uncertainty and substantial doubt of TorreyPines ability to continue as a going concern.

TorreyPines has incurred net losses of \$22.8 million, \$23.4 million and \$25.4 million for the years ended December 31, 2008, 2007 and 2006, respectively. Since inception, and through June 30, 2009, TorreyPines has an accumulated deficit of \$121.9 million. Based on TorreyPines operating plan, its existing cash and cash equivalents will only fund its operations through the third quarter, and possibly into the fourth quarter, of 2009. These conditions raise substantial doubt about TorreyPines ability to continue as a going concern. The accompanying financial statements have been prepared assuming that TorreyPines will continue as a going concern. This basis of accounting contemplates the recovery of TorreyPines assets and the satisfaction of liabilities in the normal course of business.

TorreyPines management plans to address the expected shortfall of working capital by completing the merger with Raptor or securing additional funding through project financing, equity financing, a development partner or sale of assets. There can be no assurance that TorreyPines will be able to obtain any sources of funding.

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If TorreyPines cannot complete the merger with Raptor in a timely manner, or otherwise obtain sufficient funding in the short-term, it may be forced to file for bankruptcy, cease operations or liquidate and dissolve. The consolidated financial statements do not include any adjustments relating to the recoverability and classification of recorded asset amounts and classification of liabilities that might be necessary should TorreyPines be forced to take any such actions.

Financial Operations Overview

Revenue

All of TorreyPines revenue to date has been derived from license and option fees, research funding from TorreyPines strategic alliance agreements or the sale of research programs. TorreyPines will continue to seek partners or acquirers for all of its product candidates.

Research and Development

Since inception, TorreyPines has focused on discovery and development of novel small molecule compounds to treat a number of acute and chronic diseases and disorders.

TorreyPines expenses research and development costs as incurred. Research and development expense consists of expenses incurred in identifying, researching, developing and testing product candidates. These expenses primarily consist of the following:

compensation of personnel and consultants associated with research and development activities;

fees paid to contract research organizations and professional service providers for independent monitoring analysis and regulatory services for TorreyPines clinical trials;

laboratory supplies and materials;

manufacturing of product candidates for use in TorreyPines preclinical testing and clinical trials;

preclinical studies;

depreciation of equipment; and

allocated costs of facilities and infrastructure.

Because of the risks inherent in research and development, TorreyPines cannot reasonably estimate or know the nature, timing and estimated costs of the efforts necessary to complete the development of its programs, the anticipated completion dates of these programs, or the period in which material net cash inflows are expected to commence, if at all, from the programs described above and any potential future product candidates. If either TorreyPines or any of its partners fail to complete any stage of the development of any potential products in a timely manner, it could have a material adverse effect on TorreyPines operations, financial position and liquidity.

General and Administrative

General and administrative expense consists primarily of salaries and other related costs related to the performance of executive, finance, accounting, business development, information technology and human resource functions. Other costs include facility costs not otherwise included in research and development expense and professional fees for legal and accounting services.

Table of Contents**Results of Operations****Comparison of the Three Months Ended June 30, 2009 and 2008**

The following table summarizes the significant components of TorreyPines' results of operations for the three months ended June 30, 2009 and 2008, in thousands, together with the change in such items in dollars and as a percentage.

| | For the Three Months Ended June 30, | | | |
|------------------------------------|-------------------------------------|----------|-----------|----------|
| | 2009 | 2008 | \$ Change | % Change |
| Revenue | \$ 280 | \$ 1,212 | \$ (932) | (77)% |
| Research and development expense | 61 | 5,491 | (5,430) | (99)% |
| General and administrative expense | 742 | 1,751 | 1,009 | (58)% |
| Interest income | 2 | 113 | (111) | (98)% |
| Interest expense | 11 | 110 | 99 | (90)% |
| Other income (expense), net | (76) | (1,423) | 1,347 | 95% |

Revenue. Revenue decreased to \$0.3 million for the three months ended June 30, 2009 from \$1.2 million for the same period in 2008. The decrease of \$0.9 million was due to the conclusion of TorreyPines' Alzheimer's disease genetics collaboration agreement with Eisai Co., Ltd., or Eisai, in September 2008, partially offset by the sale of TorreyPines' GSM program and rights to certain non-core technology assets. During 2009 TorreyPines recorded no revenue associated with its Alzheimer's disease genetics collaboration agreement with Eisai, compared to three months of revenue for the quarter ended June 30, 2008.

Research and development expense. Research and development decreased to \$61,000 for the three months ended June 30, 2009 from \$5.5 million for the same period in 2008. The \$5.4 million decrease was attributable to a decrease in research expense of \$1.2 million and a decrease in development expense of \$4.2 million.

The decrease in research expense is due to the conclusion of TorreyPines' GSM collaboration agreement with Eisai in February 2008 and the conclusion of TorreyPines' Alzheimer's disease genetics collaboration agreement with Eisai in September 2008. In September 2008 TorreyPines initiated a strategic restructuring under which it transitioned from a discovery and development company to a development-only company. As a result, TorreyPines did not incur research expenses during the three months ended June 30, 2009.

During the second quarter of 2009 TorreyPines had no ongoing clinical development studies. The decrease in development expense is the result of a lack of working capital and is specifically due to decreased clinical development activities for tezampanel, NGX424 and NGX267 in the three months ended June 30, 2009 compared to the same period of 2008.

General and administrative expense. General and administrative expense decreased to \$0.7 million for the three months ended June 30, 2009 from \$1.8 million for the same period in 2008. The \$1.0 million decrease was due to decreased personnel costs and related expenses and decreased professional services costs for the three months ended June 30, 2009 compared to the same period of 2008.

Interest income. Interest income decreased to \$2,000 for the three months ended June 30, 2009 from \$113,000 for the same period in 2008. The decrease of \$111,000 was due to a lower average cash and cash equivalents balance during the second quarter of 2009 compared to the second quarter of 2008.

Interest expense. Interest expense decreased to \$11,000 for the three months ended June 30, 2009 from \$110,000 for the same period in 2008. The \$99,000 decrease is due to the April 2009 payoff of TorreyPines' note payable.

Other income (expense), net. Other income (expense), net for the three months ended June 30, 2009 is comprised of a loss on extinguishment of debt of \$76,000. Other income (expense), net for the three months

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ended June 30, 2008 is comprised of a loss on the fair value of TorreyPines investment in OXIS International, Inc. of \$1,258,000 and a loss on extinguishment of debt of \$165,000.

Comparison of the Six Months Ended June 30, 2009 and 2008

The following table summarizes the significant components of TorreyPines results of operations for the six months ended June 30, 2009 and 2008, in thousands, together with the change in such items in dollars and as a percentage.

| | For the Three Months Ended June 30, | | | |
|------------------------------------|-------------------------------------|----------|------------|----------|
| | 2009 | 2008 | \$ Change | % Change |
| Revenue | \$ 280 | \$ 3,258 | \$ (2,978) | (91)% |
| Research and development expense | 916 | 10,751 | (9,835) | (91)% |
| General and administrative expense | 2,010 | 3,199 | (1,189) | (37)% |
| Interest income | 10 | 330 | (320) | (97)% |
| Interest expense | 56 | 257 | (201) | (78)% |
| Other income (expense), net | (36) | (724) | 688 | 95% |

Revenue. Revenue decreased to \$0.3 million for the six months ended June 30, 2009 from \$3.3 million for the same period in 2008. The decrease of \$3.0 million was due to the conclusion of TorreyPines Alzheimer's disease genetics collaboration agreement with Eisai in September 2008, partially offset by the sale of TorreyPines GSM program and rights to certain non-core technology assets. During 2009 TorreyPines recorded no revenue associated with its Alzheimer's disease genetics collaboration agreement with Eisai compared to six months of revenue for the six month period ended June 30, 2008.

Research and development expense. Research and development decreased to \$0.9 million for the six months ended June 30, 2009 from \$10.8 million for the same period in 2008. The \$9.8 million decrease was attributable to a decrease in research expense of \$2.9 million and a decrease in development expense of \$6.9 million.

The decrease in research expense is due to the conclusion of TorreyPines GSM collaboration agreement with Eisai in February 2008 and the conclusion of TorreyPines Alzheimer's disease genetics collaboration agreement with Eisai in September 2008. In September 2008 TorreyPines initiated a strategic restructuring under which it transitioned from a discovery and development company to a development-only company. As a result, TorreyPines did not incur research expenses during the six months ended June 30, 2009.

During the first six months of 2009 TorreyPines had no ongoing clinical development studies. The decrease in development expense is the result of a lack of working capital and is specifically due to decreased clinical development activities for tezampanel, NGX424 and NGX267 in the six months ended June 30, 2009 compared to the same period of 2008.

General and administrative expense. General and administrative expense decreased to \$2.0 million for the six months ended June 30, 2009 from \$3.2 million for the same period in 2008. The \$1.2 million decrease was due to decreased personnel costs and related expenses and decreased professional services costs for the six months ended June 30, 2009 compared to the same period of 2008.

Interest income. Interest income decreased to \$10,000 for the six months ended June 30, 2009 from \$330,000 for the same period in 2008. The decrease of \$320,000 was due to a lower average cash and cash equivalents balance during the first six months of 2009 compared to the same period of 2008.

Interest expense. Interest expense decreased to \$56,000 for the six months ended June 30, 2009 from \$257,000 for the same period in 2008. The \$201,000 decrease is due to the April 2009 payoff of TorreyPines note payable.

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Other income (expense), net. Other income (expense), net for the six months ended June 30, 2009 is comprised of a loss on extinguishment of debt of \$76,000 offset by a gain on disposal of property and equipment of \$41,000. Other income (expense), net for the six months ended June 30, 2008 is comprised of a loss on the fair value of TorreyPines investment in OXIS International, Inc. of \$559,000 and a loss on extinguishment of debt of \$165,000.

Comparison of the Year Ended December 31, 2008 and 2007

The following table summarizes TorreyPines results of operations with respect to the items set forth in such table for the years ended December 31, 2008 and 2007, in thousands, together with the change in such items in dollars and as a percentage.

| | Years Ended December 31 | | | |
|---|-------------------------|----------|------------|----------|
| | 2008 | 2007 | \$ Change | % Change |
| Revenue | \$ 6,071 | \$ 9,850 | \$ (3,779) | (38)% |
| Research and development expenses | 18,949 | 27,977 | (9,028) | (32)% |
| General and administrative expenses | 5,801 | 5,643 | 158 | 3% |
| Loss on impairment of purchased patents | 3,074 | | 3,074 | 100% |
| Interest income | 453 | 2,069 | (1,616) | (78)% |
| Interest expense | 376 | 817 | (441) | (54)% |
| Other income (expense), net | (1,109) | (851) | (258) | (30)% |

Revenue. Revenue decreased to \$6.1 million for the year ended December 31, 2008 from \$9.8 million for the same period in 2007. The decrease of \$3.7 million was due to the conclusion of TorreyPines GSM collaboration agreement with Eisai in February 2008 and the conclusion of TorreyPines Alzheimer's disease genetics collaboration agreement with Eisai in September 2008, partially offset by the sale of TorreyPines Alzheimer's disease genetics program for \$1.5 million. During 2008 in connection with the GSM collaboration agreement TorreyPines recognized revenue for two of the twelve months ended December 31, 2008; during 2007 TorreyPines recognized revenue from this collaboration agreement for each of the twelve months ended December 31, 2007. During 2008 in connection with the Alzheimer's disease genetics collaboration agreement TorreyPines recognized revenue for nine of the twelve months ended December 31, 2008; during 2007 TorreyPines recognized revenue from this collaboration agreement for each of the twelve months ended December 31, 2007.

Research and development expense. Research and development expense decreased to \$18.9 million in 2008 from \$27.9 million in 2007. The \$9.0 million decrease was attributable to a \$6.0 million decrease in expense for TorreyPines development programs and a \$3.0 million decrease in expense for TorreyPines discovery programs. The decrease in spending for TorreyPines development programs was due to decreased clinical development activities for tezampanel in 2008 compared to 2007. The decrease in spending for TorreyPines discovery programs was primarily due to the conclusion of its GSM collaboration agreement with Eisai in February 2008. Specifically, salaries and benefits expense and lab supplies expense were lower in 2008 compared to 2007.

General and administrative expense. General and administrative expense increased to \$5.8 million in 2008 from \$5.6 million in 2007. The \$0.2 million increase was primarily attributable to increased professional services costs offset by decreased personnel costs and related expenses and decreased stock based compensation expense in 2008 compared to 2007.

Loss on impairment of purchased patents. Loss on impairment of purchased patents increased to \$3.1 million in 2008 from \$0 in 2007. As of December 31, 2008 TorreyPines estimates that the purchased patents have a fair value of \$0, therefore it recorded an impairment for the total carrying value of the patents. TorreyPines did not record a loss on impairment of purchase patents during 2007.

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Interest income. Interest income in 2008 decreased to \$0.5 million in 2008 from \$2.1 million in 2007. The decrease of \$1.6 million is due to a lower average cash and cash equivalents balance in 2008 compared to 2007.

Interest expense. Interest expense decreased to \$0.4 million in 2008 from \$0.8 million in 2007. The \$0.4 million decrease is attributable to a lower average debt balance in 2008 compared to 2007 and a lower average interest rate in 2008 compared to 2007.

Other income (expense), net. Other income (expense), net for the twelve months ended December 31, 2008 is comprised of a decline in the fair value of TorreyPines investment in OXIS International, Inc. (OXIS) of \$559,000, a loss on the sale of TorreyPines investment in OXIS of \$377,000, a loss on the extinguishment of debt of \$165,000, a loss on impairment of property and equipment of \$153,000, and a gain on foreign currency translations of \$145,000.

Other income (expense), net for the twelve months ended December 31, 2007 is comprised of an impairment of the investment in OXIS of \$1,881,000 and other expense of \$3,000, offset by income from a warrant valuation adjustment of \$892,000 and equity in income of OXIS of \$141,000.

Comparison of the Year Ended December 31, 2007 and 2006

The following table summarizes TorreyPines results of operations with respect to the items set forth in such table for the years ended December 31, 2007 and 2006, in thousands, together with the change in such items in dollars and as a percentage.

| | Years Ended December 31 | | | |
|---|-------------------------|----------|-----------|----------|
| | 2007 | 2006 | \$ Change | % Change |
| Revenue | \$ 9,850 | \$ 9,850 | \$ | % |
| Research and development expenses | 27,977 | 22,353 | 5,624 | 25% |
| General and administrative expenses | 5,643 | 3,971 | 1,672 | 42% |
| Purchased in-process research and development | | 8,328 | (8,328) | (100)% |
| Interest income | 2,069 | 1,559 | 510 | 33% |
| Interest expense | 817 | 994 | (177) | (18)% |
| Other income (expense), net | (851) | (1,140) | 289 | 25% |

Revenue. Revenue for the year ended December 31, 2007 was unchanged from the same period in 2006. During 2007 there were no changes in TorreyPines strategic licensing agreements that affected its revenue from license and option fees or research funding.

Research and development expense. Research and development expense increased to \$27.9 million in 2007 from \$22.3 million in 2006. The \$5.6 million increase was attributable to a \$7.5 million increase in expense for TorreyPines development programs, offset by a \$1.9 million decrease in expense for its discovery programs. The increase in spending for TorreyPines development programs was due to increased clinical development activities for tezampanel, NGX426 and NGX267 in 2007 compared to 2006. The decrease in spending for TorreyPines discovery programs was due to lower costs incurred for its GSM program and its Alzheimer's disease genetics program in 2007 compared to 2006.

General and administrative expense. General and administrative expense increased to \$5.6 million in 2007 from \$4.0 million in 2006. The \$1.6 million increase was primarily attributable to increased personnel costs and related expenses and increased stock based compensation expense in 2007 compared to 2006. The increase in personnel costs and related expenses is due to the addition of key general and administrative personnel during the first quarter of 2007. The increase in stock based compensation expense in 2007 compared to 2006 is due to the recognition of a full year of expense associated with restricted stock units granted to executives in late 2006. TorreyPines also recognized stock based compensation expense in 2007 in connection with stock options granted to members of TorreyPines board of directors. There were no similar stock option grants in 2006.

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Purchased in-process research and development expense. There was no Purchased in-process research and development expense during the year ended December 31, 2007. Purchased in-process research and development for the year ended December 31, 2006 of \$8.3 million resulted from the merger of TorreyPines with Axonyx Inc. in October 2006 and represents the estimated fair value of certain intangible assets acquired in that transaction. TorreyPines determined these assets had not reached technological feasibility and had no alternative future use, therefore the assets were fully expensed in 2006.

Interest income. Interest income in 2007 increased to \$2.1 million in 2007 from \$1.6 million in 2006. The increase of \$0.5 million is due to higher average cash and cash equivalents balances in 2007 compared to 2006.

Interest expense. Interest expense decreased to \$0.8 million in 2007 from \$1.0 million in 2006. The \$0.2 million decrease is attributable to a lower average debt balance in 2007 compared to 2006.

Other income (expense), net. Other income (expense), net for the twelve months ended December 31, 2007 is comprised of an impairment of the investment in OXIS of \$1,881,000 and other expense of \$3,000, offset by income from a warrant valuation adjustment of \$892,000 and equity in income of OXIS of \$141,000.

Other income (expense), net for the twelve months ended December 31, 2006 is comprised of equity in loss of OXIS of \$916,000, a loss from a warrant valuation adjustment of \$240,000 and other income of \$16,000.

Liquidity and Capital Resources

Since inception, TorreyPines has funded its operations primarily through sales of its equity securities, payments under its research agreements, debt financings and interest income. Through June 30, 2009, TorreyPines had received approximately \$68.0 million in net proceeds from the sale of equity securities, \$47.4 million in payments under its research agreements, \$22.4 million from debt issuances, and \$5.5 million in interest income. In addition, as a result of a business combination TorreyPines completed in October 2006, it received \$46.5 million of cash.

At June 30, 2009, TorreyPines had cash and cash equivalents of \$1.2 million as compared to \$10.9 million at December 31, 2008. The cash balance at June 30, 2009 is \$9.7 million lower than the balance at December 31, 2008 due largely to the current quarter operating loss and repayments of debt.

TorreyPines believes it has sufficient funds to enable it to meet its ongoing working capital requirements through the third quarter, and possibly into the fourth quarter, of 2009. For a further discussion of the risks related to the availability of cash to fund TorreyPines' future operations, please see the section titled, "TorreyPines Risk Factors" in this joint proxy statement/prospectus.

TorreyPines has been exploring financing and strategic alternatives, and is now pursuing the merger with Raptor. If the merger with Raptor is not consummated, TorreyPines may pursue a possible project financing, equity financing, or a partnership in order to continue the development of its two ionotropic glutamate receptor antagonist product candidates. The Merger Agreement with Raptor includes significant limitations on the financing alternatives TorreyPines may pursue without obtaining Raptor's consent. If TorreyPines is unable to complete the merger with Raptor, or, if that is not completed, a financing or strategic transaction during 2009, it will likely be unable to continue as a going concern and may be forced to file for bankruptcy, cease operations or liquidate and dissolve.

If TorreyPines raises additional capital by issuing equity securities, its existing stockholders' ownership will be diluted. Any debt financing TorreyPines enters into may involve covenants that restrict its operations. These restrictive covenants may include limitations on additional borrowing, specific restrictions on the use of TorreyPines assets as well as prohibitions on its ability to create liens, pay dividends, redeem its stock or make investments. In addition, if TorreyPines raises additional funds through collaboration and licensing arrangements, it may be required to relinquish potentially valuable rights to its product candidates, or grant licenses on terms that are not favorable to it.

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Off-Balance Sheet Arrangements

TorreyPines does not have any off-balance sheet arrangements.

Critical Accounting Policies and Significant Judgments and Estimates

TorreyPines discussion and analysis of its financial condition and results of operations are based on its financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States, or GAAP. The preparation of these financial statements requires TorreyPines to make estimates and judgments that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting periods. Note 1 of the notes to TorreyPines' financial statements included in its Annual Report on Form 10-K for the fiscal year ended December 31, 2008 and filed with the SEC on March 27, 2009 includes a summary of its significant accounting policies and methods used in the preparation of its financial statements. On an on-going basis, TorreyPines management evaluates its estimates and judgments, including those related to revenue, accrued expenses, in-process research and development and stock-based compensation. TorreyPines management bases its estimates on historical experience, known trends and events, and various other factors that it believes to be reasonable under the circumstances, the results of which form its basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

TorreyPines management believes the following accounting policies and estimates are most critical to aid you in understanding and evaluating its reported financial results.

Revenue Recognition

TorreyPines recognized revenue in accordance with the SEC's Staff Accounting Bulletin, or SAB, No. 104, *Revenue Recognition*, and Emerging Issues Task Force, or EITF, No. 00-21, *Revenue Arrangements with Multiple Deliverables*. To date, TorreyPines has recorded license and option fee revenue and research funding revenue from four research agreements with Eisai. The terms of the agreements typically include up-front payments to TorreyPines of non-refundable license and/or option fees and, in some cases, payments for research efforts. Future agreements could also include milestone payments and royalty payments.

TorreyPines recognized revenue from up-front non-refundable license and option fees on a straight-line basis over the contracted or estimated period of performance, which is typically the research term. Amounts received for research funding for a specific number of full-time researchers are recognized as revenue as the services are provided, as long as the amounts received are not refundable regardless of the results of the research project. Milestone payments, if any, will be recognized on achievement of the milestone, unless the amounts received are creditable against royalties or TorreyPines has on-going performance obligations. Royalty payments, if any, will be recognized on sale of the related product, provided the royalty amounts are fixed and determinable, and collection of the related receivable is probable.

Accrued Expenses

As part of the process of preparing financial statements, TorreyPines is required to estimate accrued expenses. This process involves identifying services which have been performed on TorreyPines behalf, and estimating the level of service performed and the associated cost incurred for such service as of each balance sheet date in TorreyPines financial statements. Examples of services for which TorreyPines must estimate accrued expenses include contract service fees paid to contract manufacturers in conjunction with the production of clinical drug supplies and to contract research organizations in connection with TorreyPines preclinical studies and clinical trials. In connection with such service fees, TorreyPines estimates are most affected by its understanding of the status and timing of services provided. The majority of TorreyPines service providers

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invoice TorreyPines in arrears for services performed. In the event that TorreyPines does not identify certain costs which have been incurred, or it under- or over-estimate the level of services performed or the costs of such services in a given period, TorreyPines reported expenses for such period would be too low or too high. The date on which certain services commence, the level of services performed on or before a given date, and the cost of such services are often determined based on subjective judgments. TorreyPines makes these judgments based upon the facts and circumstances known to it. To date, TorreyPines has been able to reasonably estimate these costs; however, as TorreyPines increases the level of services performed on its behalf, it will become increasingly more difficult for TorreyPines to estimate these costs, which could result in TorreyPines reported expenses for future periods being too high or too low.

Stock-Based Compensation

TorreyPines estimates the fair value of stock options granted using the Black-Scholes option valuation model and the fair value of restricted stock units granted using a Monte-Carlo simulation option-pricing model. The fair values of stock option and restricted stock unit awards are amortized over the requisite service periods of the awards. Both the Black-Scholes option valuation model and the Monte-Carlo simulation option-pricing model require the input of highly subjective assumptions, including the option or restricted stock unit's expected life, price volatility of the underlying stock, risk free interest rate and expected dividend rate. As stock-based compensation expense related to stock options is based on awards ultimately expected to vest, the stock-based compensation expense has been reduced for estimated forfeitures of stock options. Statement of Financial Accounting Standards, or SFAS, No. 123R, *Share-Based Payment*, requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Stock option forfeitures were estimated based on historical experience. TorreyPines may elect to use different assumptions under both the Black-Scholes option valuation model or the Monte-Carlo simulation option-pricing model in the future, which could materially affect TorreyPines net income or loss and net income or loss per share.

Recent Accounting Pronouncements

See Note 1 in the accompanying notes to TorreyPines consolidated financial statements beginning on page F-1 in this joint proxy statement/prospectus.

CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Related-Person Transactions Policy and Procedures

In 2007 TorreyPines adopted a written Related-Person Transactions Policy that sets forth its policies and procedures regarding the identification, review, consideration and approval or ratification of related-persons transactions. There have been no revisions to the Related-Persons Transactions Policy following its adoption in 2007. For purposes of TorreyPines' policy only, a related-person transaction is a transaction, arrangement or relationship (or any series of similar transactions, arrangements or relationships) in which TorreyPines and any related person are participants involving an amount that exceeds \$120,000. Transactions involving compensation for services provided to TorreyPines as an employee, director, consultant or similar capacity by a related person are not covered by this policy. A related person is any executive officer, director, or more than 5% stockholder of TorreyPines, including any of their immediate family members, and any entity owned or controlled by such persons.

Under the policy, where a transaction has been identified as a related-person transaction, management must present information regarding the proposed related-person transaction to TorreyPines' Audit Committee (or, where TorreyPines' Audit Committee approval would be inappropriate, to another independent body of the TorreyPines' board of directors) for consideration and approval or ratification. The presentation must include a

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description of, among other things, the material facts, the interests, direct and indirect, of the related persons, the benefits to TorreyPines of the transaction and whether any alternative transactions were available. To identify related-person transactions in advance, TorreyPines relies on information supplied by its executive officers and directors. In considering related-person transactions, TorreyPines Audit Committee takes into account the relevant available facts and circumstances including, but not limited to (a) the risks, costs and benefits to TorreyPines, (b) the impact on a director's independence in the event the related person is a director, immediate family member of a director or an entity with which a director is affiliated, (c) the terms of the transaction, (d) the availability of other sources for comparable services or products and (e) the terms available to or from, as the case may be, unrelated third parties or to or from employees generally. In the event a director has an interest in the proposed transaction, the director must recuse himself or herself from the deliberations and approval. The policy requires that, in determining whether to approve, ratify or reject a related-person transaction, TorreyPines Audit Committee look at, in light of known circumstances, whether the transaction is in, or is not inconsistent with, the best interests of TorreyPines and its stockholders, as TorreyPines Audit Committee determines in the good faith exercise of its discretion.

Certain Related-Person Transactions

TorreyPines has entered into indemnity agreements with certain officers and directors which provide, among other things, that TorreyPines will indemnify such officer or director, under the circumstances and to the extent provided for therein, for expenses, damages, judgments, fines and settlements he or she may be required to pay in actions or proceedings which he or she is or may be made a party by reason of his or her position as a director, officer or other agent of TorreyPines, and otherwise to the fullest extent permitted under Delaware law and TorreyPines Bylaws.

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT

TORREYPINES MARKET RISK

TorreyPines is exposed to market risk related to changes in interest rates. TorreyPines current investment policy is to maintain an investment portfolio consisting mainly of U.S. money market and high-grade corporate securities, directly or through managed funds, with maturities of one and a half years or less. TorreyPines does not enter into investments for trading or speculative purposes. TorreyPines cash is deposited in and invested through highly rated financial institutions in North America. If market interest rates were to increase immediately and uniformly by 10% from levels at December 31, 2008 and 2007, TorreyPines cash and cash equivalents balances would not be significantly affected.

TorreyPines had foreign currency accounts that were exposed to currency exchange risk. The operations of TorreyPines Belgium subsidiary were closed in December 2008. The functional currency of TorreyPines European subsidiary, which was based in Belgium, was the local currency. Accordingly, the accounts of this subsidiary were translated from the local currency to the U.S. dollar using the exchange rate at the balance sheet date for the balance sheet accounts, and using the average exchange rate during the period for revenue and expense accounts. The effects of translation are recorded in accumulated other comprehensive loss as a separate component of stockholders' deficit through the closure date for the subsidiary and in other income (expense) in the results of operations thereafter. For the years ended December 31, 2008 and 2007, TorreyPines recorded exchange gains of \$145,000 and \$0, respectively. For the year ended December 31, 2008 a total of \$486,000 of foreign currency translation gains that were recorded in stockholders' equity (deficit) were reclassified to other income (expense) upon the closure of the Belgium subsidiary.

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**RAPTOR S MANAGEMENT S DISCUSSION AND ANALYSIS OF
FINANCIAL CONDITION AND RESULTS OF OPERATIONS**

The following discussion and analysis of financial condition and results of operations should be read together with Selected Historical Financial Data of Raptor and Raptor s financial statements and accompanying notes appearing elsewhere in this joint proxy statement/prospectus. This discussion contains forward-looking statements, based on current expectations and related to future events and Raptor s future financial performance, that involve risks and uncertainties. Raptor s actual results may differ materially from those anticipated in these forward-looking statements as a result of many important factors, including those set forth in the section titled, Risk Factors in this joint proxy statement/prospectus and elsewhere in this joint proxy statement/prospectus.

Overview

PLAN OF OPERATION

You should read the following discussion in conjunction with Raptor s condensed consolidated financial statements as of May 31, 2009, and the notes to such condensed consolidated financial statements included elsewhere in this joint proxy statement/prospectus. All references to Raptor include the activities of Raptor Pharmaceuticals Corp. and its wholly-owned subsidiaries, Raptor Pharmaceutical Inc. and Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.), or Raptor Therapeutics.

This Management s Discussion and Analysis of Financial Condition or Plan of Operation section contains forward-looking statements. Please see Forward-Looking Statements for a discussion of the uncertainties, risks and assumptions associated with these statements. Raptor s actual results and the timing of certain events could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including those discussed below and elsewhere in this joint proxy statement/prospectus, particularly under the section titled, Risk Factors.

Plan of Operation and Overview

Raptor believes that it is building a balanced pipeline of drug candidates that may expand the reach and benefit of existing therapeutics. Raptor s product portfolio includes both candidates from its proprietary drug targeting platforms and in-licensed and acquired product candidates.

Raptor s current pipeline includes four clinical development programs plus three preclinical programs that are based upon its proprietary drug-targeting platforms.

Clinical Development Programs

Raptor s four clinical development programs are based on existing therapeutics that it is reformulating for potential improvement in safety and/or efficacy and application for in new disease indications.

These clinical development programs include the following.

DR Cysteamine for the potential treatment of: cystinosis, NASH and HD; and

Convivia for the potential management of acetaldehyde toxicity due to alcohol consumption by individuals with ALDH2 deficiency.
Preclinical Programs

Raptor s preclinical platforms consist of targeted therapeutics, which it is developing for the potential treatment of multiple indications, including liver diseases, neurodegenerative diseases and breast cancer:

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Raptor's RAP platform consists of: HepTide for the potential treatment of primary liver cancer and hepatitis C; and NeuroTrans to potentially deliver therapeutics across the blood-brain barrier for treatment of a variety of neurological diseases.

Raptor's Mesd platform consists of WntTide for the potential treatment of breast cancer.

Future Activities

Over the next 12 months, Raptor plans to conduct research and development activities based upon its DR Cysteamine product candidate, its Convivia™ product candidate, its RAP-based platform, its Mesd-based peptides, and future in-licensed technologies and acquired technologies. A brief summary of Raptor's primary objectives in the next 12 months for its research and development activities is provided below. Raptor's plans for research and development activities over the next 12 months can only be implemented if it is successful in raising significant funds during this period. In addition, there can be no assurances that Raptor's research and development activities will be successful. Raptor needs to make important progress towards achieving at least one of its major clinical objectives or its ability to continue as a going concern will be adversely impacted due to the potential inability for it to raise additional capital.

Clinical Development Programs

Raptor develops clinical-stage drug product candidates which are: internally discovered therapeutic candidates based on its novel drug delivery platforms and in-licensed or purchased clinical-stage products which may be new chemical entities in mid-to-late stage clinical development, currently approved drugs with potential efficacy in additional indications, and treatments that Raptor could repurpose or reformulate as potentially more effective or convenient treatments for a drug's currently approved indications.

Development of DR Cysteamine for the Potential Treatment of Nephropathic Cystinosis and Other Diseases

Raptor's DR Cysteamine product candidate is a proprietary delayed-release, enteric-coated microbead formulation of cysteamine bitartrate contained in a gelatin capsule. Raptor is investigating DR Cysteamine for the potential treatment of: cystinosis, NASH and HD.

Immediate-release cysteamine bitartrate, a cystine-depleting agent, is currently the only FDA and EMEA approved drug to treat cystinosis, a rare genetic disease. Immediate-release cysteamine is effective at preventing or delaying kidney failure and other serious health problems in cystinosis patients. However, patient compliance is challenging due to the requirement for frequent dosing and gastrointestinal side effects. Raptor's DR Cysteamine for the potential treatment of cystinosis is designed to mitigate some of these difficulties. It is expected to be dosed twice daily, compared to the current every-six-hour dosing schedule. In addition, DR Cysteamine is designed to pass through the stomach and deliver the drug directly to the small intestine, where it is more easily absorbed into the bloodstream and may result in fewer gastrointestinal side effects.

The FDA granted orphan drug designation to Raptor for: DR Cysteamine for the treatment of cystinosis in 2006; DR Cysteamine for the treatment of Batten Disease in 2008; and cysteamine for the treatment of HD in 2008.

In June 2009, Raptor commenced its Phase IIb clinical trial of DR Cysteamine in cystinosis, in which it has enrolled three cystinosis patients and plan to enroll up to four additional cystinosis patients with a history of compliance using the currently available immediate-release form of cysteamine bitartrate. The clinical trial will evaluate safety, tolerability, pharmacokinetics and pharmacodynamics of a single dose of DR Cysteamine in patients. Release of data from the study is expected in the fourth calendar quarter of 2009. Raptor plans to follow the Phase IIb clinical study with a pivotal, Phase III clinical study in cystinosis patients anticipated to commence in the fourth calendar quarter of 2009. In October 2008, Raptor commenced a clinical trial in collaboration with UCSD to investigate a prototype formulation of DR Cysteamine for the treatment of NASH in juvenile patients. Raptor also plans to support a clinical trial investigating DR Cysteamine in HD patients in collaboration with a French institution.

Table of Contents*Development of Convivia™ for ALDH2 Deficiency*

Convivia is Raptor's proprietary oral formulation of 4-methylpyrazole, or 4-MP intended for the potential treatment of acetaldehyde toxicity resulting from alcohol consumption in individuals with ALDH2 deficiency, which is an inherited disorder of the body's ability to breakdown ethanol, commonly referred to as alcohol intolerance. 4-MP is presently marketed in the U.S. and E.U. in an intravenous form as an anti-toxin. Convivia™ is designed to lower systemic acetaldehyde levels and reduce symptoms, such as tachycardia and flushing, associated with alcohol consumption by ALDH2-deficient individuals. Convivia™ is a capsule designed to be taken approximately 30 minutes prior to consuming an alcoholic beverage.

In 2008 Raptor completed a Phase IIa dose escalation clinical trial of oral 4-MP with ethanol in ALDH2 deficient patients. The study results demonstrated that the active ingredient in Convivia™ significantly reduced heart palpitations (tachycardia), which are commonly experienced by ALDH2 deficient people who drink, at all dose levels tested. The study also found that the 4-MP significantly reduced peak acetaldehyde levels and total acetaldehyde exposure in a subset of the study participants who possess specific genetic variants of the liver ADH and ALDH2 enzymes. Raptor believes that this subset represents approximately one-third of the ALDH2 deficient adult population. Raptor is actively seeking corporate partnerships with pharmaceutical companies in selected Asian countries to continue clinical development of Convivia™ in those countries.

Preclinical Development Programs

Raptor is also developing a drug-targeting platform based on the proprietary use of the human protein, RAP, and Mesd. Raptor believes that these proteins may have therapeutic applications in cancer, infectious diseases and neurodegenerative diseases, among others.

These applications are based on the assumption that Raptor's targeting molecules can be engineered to bind to a selective subset of receptors with restricted tissue distribution under particular conditions of administration. Raptor believes these selective tissue distributions can be used to deliver drugs to the liver or to other tissues, such as the brain.

In addition to selectively transporting drugs to specific tissues, selective receptor binding constitutes a means by which receptor function might be specifically controlled, either through modulating its binding capacity or its prevalence on the cell surface. Mesd is being engineered for this latter application.

Development of HepTide™ for Hepatocellular Carcinoma and Hepatitis C

Drugs currently used to treat primary liver cancer are often toxic to other organs and tissues. Raptor believes that the pharmacokinetic behavior of RAP (i.e., the determination of the fate or disposition of RAP once administered to a living organism) may diminish the non-target toxicity and increase the on-target efficacy of attached therapeutics.

In preclinical studies of Raptor's radio-labeled HepTide^{EM} (a variant of RAP), HepTide™, Raptor's proprietary drug-targeting peptide was shown to distribute predominately to the liver. Radio-labeled HepTide™ which was tested in a preclinical research model of HCC, at the National Research Council in Winnipeg, Manitoba, Canada, showed 4.5 times more delivery to the liver than the radio-labeled control. Another study of radio-labeled HepTide™ in a non-HCC preclinical model, showed 7 times more delivery to the liver than the radio-labeled control, with significantly smaller amounts of radio-labeled HepTide™ delivery to other tissues and organs.

HCC is caused by the malignant transformation of hepatocytes, epithelial cells lining the vascular sinusoids of the liver, or their progenitors. HepTide™ has shown to bind to LRP1 receptors on hepatocytes. Raptor believes that the pharmacokinetics and systemic toxicity of a number of potent anti-tumor agents may be controlled in this way.

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There are additional factors that favor the suitability of RAP as an HCC targeting agent:

RAP is captured by hepatocytes with efficiency, primarily on first-pass.

Late-stage HCC is perfused exclusively by the hepatic artery, while the majority of the liver is primarily perfused through the portal vein.

Raptor's studies have shown that the RAP receptor, LRP1, is well-expressed on human HCC and under-expressed on non-cancerous, but otherwise diseased, hepatocytes. Also, high levels of LRP1 expression are maintained on metastasized HCC. These factors will favor delivery of RAP peptide-conjugated anti-tumor agents to tumor cells, whether in the liver or at metastasized sites.

Raptor is evaluating conjugates between HepTide™ and a chemotherapeutic for testing in vitro and in appropriate preclinical models for the potential treatment of HCC.

Raptor is also evaluating conjugates between HepTide™ and an antiviral agent for testing in vitro and in appropriate preclinical models for the potential treatment of hepatitis C.

Development of NeuroTrans™ for the Potential Treatment of Diseases Affecting the Brain

Nearly 1,000 known genetic and neurodegenerative diseases affect the brain. Drugs often have difficulty reaching these disease-affected areas because the brain has evolved a protective barrier, commonly referred to as the blood-brain barrier.

Part of the solution to the medical problem of neurodegenerative diseases is the creation of effective brain targeting and delivery technologies. One of the most obvious ways of delivering therapeutics to the brain is via the brain's extensive vascular network. Treating these diseases by delivering therapeutics into the brain in a minimally invasive way, including through a natural receptor mediated transport mechanism called transcytosis, is a vision shared by many researchers and clinicians in the neuroscience and neuromedical fields.

NeuroTrans is Raptor's proprietary RAP-based technology program to research the delivery of therapeutics across the blood-brain barrier. Raptor believes its NeuroTrans platform may provide therapies that will be safer, less intrusive and more effective than current approaches in treating a wide variety of brain disorders.

In preclinical studies, NeuroTrans has been conjugated to a variety of protein drugs, including enzymes and growth factors, without interfering with the function of either fusion partner. Studies indicate that radio-labeled NeuroTrans may be transcytosed across the blood-brain barrier and, that fusions between NeuroTrans and therapeutic proteins may be manufactured economically.

Raptor worked with Dr. William Mobley, while he was a professor and Chairman of the Department of Neurology and Neurological Sciences, and his lab at Stanford University to study the brain transport behavior of NeuroTrans candidates. In the first year of Raptor's collaboration, a number of RAP-based peptide transport candidates were tested for their ability to bind to receptors that are thought to reside on the cells that line the blood-brain barrier. From these experiments, a lead candidate peptide was selected. In the second year of Raptor's collaboration, it completed preclinical evaluations which it believes support that NeuroTrans conjugates injected into the blood stream have the ability to seek out, bind to, and rapidly enter the cells that line the blood-brain barrier. These experiments support the NeuroTrans peptide's ability to enhance the transport of cargo molecules into the cells that line the blood-brain barrier. This collaboration has lapsed.

In June 2009, Raptor entered into a collaboration and licensing agreement with Roche to evaluate therapeutic delivery across the blood-brain barrier utilizing NeuroTrans. Under terms of the agreement, Roche has funded studies of select molecules attached to NeuroTrans™. The agreement provides Roche with an

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exclusive worldwide license to NeuroTrans™ for use in the delivery of diagnostic and therapeutic molecules across the blood-brain barrier. Roche's and Raptor's scientists will actively collaborate on the project. Raptor has received an initial upfront payment for the collaboration to cover Raptor's portion of the initial studies, and may earn development milestone payments and royalties in exchange for the licensing of NeuroTrans™ to Roche.

Development of WntTide™ for the Potential Treatment of Cancer

Human Mesd is a natural inhibitor of the receptor LRP6. LRP6 has recently been shown to play a role in the progression of some breast tumors. Studies in the laboratory of Professor Guojun Bu at the Washington University in St. Louis Medical School have demonstrated the potential of Mesd and related peptides to target these tumors. These molecules and applications are licensed to Raptor from the University. Professor Bu sits on Raptor's Scientific Advisory Board.

WntTide is Raptor's proprietary, Mesd-based peptide that it is developing as a potential therapeutic to inhibit the growth and metastasis of tumors over-expressing LRP5 or LRP6.

In November 2006, Raptor licensed the use of Mesd from Washington University in St. Louis for the potential treatment of cancer and bone density disorders. In June 2007, Raptor's preclinical study demonstrated that both Mesd and WntTide accelerated bone loss in a model of osteoporosis, suggesting inhibition of a key cellular signaling pathway was taking place. These findings indicate that WntTide may treat diseases known to be caused by an over-activation of the Wnt pathway, including certain forms of breast cancer. In April 2009, Washington University conducted a preclinical study of WntTide in a breast cancer model which showed tumor inhibition. The results of this study were presented at the 2nd Annual Wnt Conference in Washington, D.C., in June 2009 and will be published in the second calendar half of 2009. Raptor is currently evaluating the next steps with researchers at Washington University in the continued development of WntTide™.

Other Development Areas

Securing Additional and Complementary Technology Licenses from Others

Raptor intends to continue to extend its development of RAP, RAP-variants and Mesd to applications in other potential therapeutics. Raptor plans to establish additional research collaborations with prominent universities and research labs currently working on the development of potential targeting molecules, and to secure licenses from these universities and labs for technology resulting from the collaboration. No assurances can be made regarding Raptor's ability to establish such collaborations over the next 12 months, or at all. Raptor intends to focus its in-licensing and product candidate acquisition activities on identifying complementary therapeutics, therapeutic platforms that offer a number of therapeutic targets, and clinical-stage therapeutics based on existing approved drugs in order to create proprietary reformulations to improve safety and efficacy or to expand such drugs' clinical indications through additional clinical trials.

Business Development Activities

As part of Raptor's ongoing business development activities, it intends to seek out industry partners interested in potential clinical applications of its proprietary molecules and co-development or drug partnerships. In the cancer area, Raptor plans to contact institutions and companies with an expressed interest in developing therapeutics to its potential anti-cancer targets. Out-licensing arrangements with these companies may include technology transfer, partnerships, or joint ventures. Joint activities may include drug product candidate development, drug product candidate manufacturing, preclinical testing or clinical research studies. Raptor plans to enter partnerships with one or more pharmaceutical companies in Asian countries for development and commercialization of its Convivia™ product candidate. Raptor also plans to seek distribution or co-development agreements with one or more companies for ex-US territories for its DR Cysteamine product candidate. There

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can be no assurance that Raptor will be able to identify appropriate industry partners or, if it is able to, that it will be able to enter into mutually acceptable agreements with them on terms that are satisfactory to Raptor, or at all.

Raptor also intends to continue its efforts to in-license or acquire clinical stage products and preclinical drugs or drug technologies. These products may be in later stage clinical development or already approved and on the market. Raptor may obtain these products through collaborations, joint ventures or through merger and/or acquisitions with other biotechnology companies.

Strategic Acquisitions

Purchase of Convivia™

In October 2007, Raptor purchased certain assets of Convivia, Inc., or Convivia, including intellectual property, know-how and research reports related to a product candidate targeting liver ALDH2 deficiency, a genetic metabolic disorder. Raptor hired Convivia's chief executive officer and founder, Thomas E. (Ted) Daley, as President of its clinical development division. In exchange for the assets related to the ALDH2 deficiency program, what Raptor now calls Convivia™, Raptor issued to Convivia 200,000 shares of Raptor's common stock, an additional 200,000 shares of Raptor's common stock to a third party in settlement of a convertible loan between the third party and Convivia, and another 37,500 shares of Raptor's common stock in settlement of other obligations of Convivia. Mr. Daley, as the former sole stockholder of Convivia, may earn additional shares of Raptor's common stock based on certain triggering events or milestones related to the development of the Convivia assets. In addition, Mr. Daley may earn cash bonuses based on the same triggering events pursuant to his employment agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement as a result of the milestone of Raptor's execution of a formulation agreement for manufacturing Convivia™ with Patheon. In March 2008, Raptor issued to Mr. Daley 100,000 shares of Raptor's common stock pursuant to Raptor's Convivia purchase agreement as a result of the milestone of Raptor's execution of an agreement to supply it with the active pharmaceutical ingredient for Convivia™ and two \$10,000 cash bonuses pursuant to his employment agreement for reaching his six-month and one-year employment anniversaries. In October 2008, Raptor issued to Mr. Daley 100,000 shares of Raptor's common stock valued at \$27,000 and a \$30,000 cash bonus as a result of fulfilling a clinical milestone.

Purchase of DR Cysteamine

In December 2007, through a merger between Encode and Raptor's wholly-owned subsidiary, Raptor Therapeutics, Raptor purchased certain assets, including the clinical development rights to DR Cysteamine. Under the terms of and subject to the conditions set forth in the merger agreement, it issued 3,444,297 shares of Raptor's common stock to Encode Stockholders, Encode Options to purchase up to, in the aggregate, 357,427 shares of Raptor's common stock to the Encode Optionholders, and Encode Warrants to purchase up to, in the aggregate, 1,098,276 shares of Raptor's common stock to the Encode Warrantholders, as of the date of such agreement. Such common stock, Encode Options to purchase Raptor's common stock, and Encode Warrants to purchase Raptor's common stock combine for an aggregate amount of 4.9 million shares of Raptor's common stock issuable to the Encode Securityholders as of the closing of the merger. The Encode Securityholders are eligible to receive up to an additional 2.4 million shares of Raptor's common stock, Encode Options and Encode Warrants to purchase Raptor's common stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program, if completed within the five year anniversary date of the merger agreement.

As a result of the Encode merger, Raptor received the exclusive worldwide license to the License Agreement, developed by clinical scientists at the UCSD, School of Medicine. In consideration of the grant of the license, prior to the merger with Raptor Therapeutics, Encode paid an initial license fee and Raptor is obligated to pay an annual maintenance fee of \$15,000 until it begins commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, Raptor is obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan

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indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year Raptor begins commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, Raptor is obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, Raptor is obligated, among other things, to spend annually at least \$200,000 for the development of products (which Raptor satisfied, as of its fiscal year ended August 31, 2008 by spending approximately \$900,000 on such programs) pursuant to the License Agreement. As of May 31, 2009, Raptor accrued \$40,000 due to UCSD for the milestone related to the first patient dosing in the NASH trial which commenced in October 2008. To the extent that Raptor fails to perform any of its obligations under the License Agreement, then UCSD may terminate the license or otherwise cause the license to become non-exclusive.

Application of Critical Accounting Policies

Raptor's condensed consolidated financial statements and accompanying notes are prepared in accordance with generally accepted accounting principles used in the U.S. Preparing financial statements requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenue, and expenses. These estimates and assumptions are affected by management's application of accounting policies. Raptor believes that understanding the basis and nature of the estimates and assumptions involved with the following aspects of its condensed consolidated financial statements is critical to an understanding of Raptor's condensed consolidated financial position.

Raptor believes the following critical accounting policies require it to make significant judgments and estimates in the preparation of Raptor's condensed consolidated financial statements.

Fair Value of Financial Instruments

The carrying amounts of certain of Raptor's financial instruments including cash and cash equivalents, prepaid expenses, accounts payable, accrued liabilities and capital lease liability approximate fair value due to their short maturities.

Cash and Cash Equivalents

Raptor considers all highly liquid investments with original maturities of three months or less to be cash equivalents.

Intangible Assets

Intangible assets include the intellectual property and other rights relating to DR Cysteamine and Raptor's RAP technology. Raptor's intangible assets are amortized using the straight-line method over the estimated useful life of 20 years, which is the life of Raptor's intellectual property patents. The 20 year estimated useful life is also based upon the typical development, approval, marketing and life cycle management timelines of pharmaceutical drug products.

Fixed Assets

Fixed assets, which mainly consist of leasehold improvements, lab equipment, computer hardware and software and capital lease equipment, are stated at cost. Depreciation is computed using the straight-line method over the related estimated useful lives, except for leasehold improvements and capital lease equipment, which are depreciated over the shorter of the useful life of the asset or the lease term. Significant additions and

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improvements that have useful lives estimated at greater than one year are capitalized, while repairs and maintenance are charged to expense as incurred.

Impairment of Long-Lived Assets

Raptor evaluates its long-lived assets for indicators of possible impairment by comparison of the carrying amounts to future net undiscounted cash flows expected to be generated by such assets when events or changes in circumstances indicate the carrying amount of an asset may not be recoverable. Should an impairment exist, the impairment loss would be measured based on the excess carrying value of the asset over the asset's fair value or discounted estimates of future cash flows. Raptor has not identified any such impairment losses to date.

Income Taxes

Income taxes are recorded under the liability method, under which deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to affect taxable income. Valuation allowances are established when necessary to reduce deferred tax assets to the amount expected to be realized.

Research and Development

Raptor is an early development stage company. Research and development costs are charged to expense as incurred. Research and development expenses include scientists' salaries, lab collaborations, preclinical studies, clinical trials, clinical trial materials, regulatory and clinical consultants, lab supplies, lab services, lab equipment maintenance and small equipment purchased to support the research laboratory, amortization of intangible assets and allocated executive, human resources and facilities expenses.

In-Process Research and Development

Raptor records in-process research and development expense for a product candidate acquisition where there is not more than one potential product or usage for the assets being acquired. Raptor reviews each product candidate acquisition to determine if the purchase price should be expensed as in-process research and development or capitalized and amortized over the life of the asset.

Stock-Based Compensation

In May 2006, Raptor's stockholders approved the 2006 Equity Compensation Plan, referred to herein as the Plan. The Plan's term is ten years and allows for the granting of options to Raptor's employees, directors and consultants. Typical option grants are for ten years with exercise prices at or above market price based on the last closing price as of the date prior to the grant date as quoted on the OTC Bulletin Board and vest over four years as follows: 6/48ths on the six month anniversary of the date of grant; and 1/48th per month thereafter.

Effective September 1, 2006, Raptor's stock-based compensation is accounted for in accordance with Statement of Financial Accounting Standards (SFAS) No. 123(R) (SFAS 123(R)), *Share-Based Payment* and related interpretations. Under the fair value recognition provisions of this statement, share-based compensation cost is measured at the grant date based on the value of the award and is recognized as expense over the vesting period. Determining the fair value of share-based awards at the grant date requires judgment, including estimating future stock price volatility and employee stock option exercise behavior. If actual results differ significantly from these estimates, stock-based compensation expense and results of operations could be materially impacted.

In March 2005, the SEC issued Staff Accounting Bulletin (SAB) No. 107 (SAB 107), which offers guidance for SFAS 123(R). SAB 107 was issued to assist preparers by simplifying some of the implementation

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challenges of SFAS 123(R) while enhancing the information that investors receive. SAB 107 creates a framework that is premised on two overarching themes: (a) considerable judgment will be required by preparers to successfully implement SFAS 123(R), specifically when valuing employee stock options; and (b) reasonable individuals, acting in good faith, may conclude differently on the fair value of employee stock options. Key topics covered by SAB 107 include valuation models, expected volatility and expected term. Raptor is applying the principles of SAB 107 in conjunction with its adoption of SFAS 123(R).

For the three month period ended May 31, 2009, stock-based compensation expense was based on the Black-Scholes option-pricing model assuming the following: risk-free interest rate of 2.6%; 7 year expected life; 233% volatility; 10% turnover rate; and 0% dividend rate.

Raptor based its Black-Scholes inputs on the following factors: the risk-free interest rate was based upon Raptor's review of current constant maturity treasury bill rates for seven years; the expected life was based upon Raptor's assessment of the ten-year term of the stock options issued along with the fact that it is a development-stage company and Raptor's anticipation that option holders will exercise stock options when the company is at a more mature stage of development; the volatility was based on the actual volatility of Raptor's common stock price as quoted on the over the counter bulletin board; the turnover rate was based on Raptor's assessment of the size of Raptor and the minimum potential for employee turnover at the current development-stage of Raptor; and the dividend rate was based on Raptor's current decision to not pay dividends on Raptor's stock at its current development stage.

If factors change and different assumptions are employed in the application of SFAS 123(R), the compensation expense recorded in future periods may differ significantly from what was recorded in the current period. See Note 7 of Raptor's condensed consolidated financial statements for further discussion of its accounting for stock based compensation.

Raptor recognizes as consulting expense the fair value of options granted to persons who are neither employees nor directors. Stock options issued to consultants are accounted for in accordance with the provisions of EITF Issue No. 96-18, *Accounting for Equity Instruments that are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling, Goods or Services*. The fair value of expensed options is based on the Black-Scholes option-pricing model assuming the same factors as stock-based compensation expense discussed above.

On November 10, 2005, the Financial Accounting Standards Board (FASB) issued FASB Staff Position (FSP) No. FAS 123(R)-3 *Transition Election Related to Accounting for Tax Effects of Share-Based Payment Awards*. This FSP provides a practical transition election related to the accounting for the tax effects of share-based payment awards to employees, as an alternative to the transition guidance for the additional paid-in capital pool (APIC pool) in paragraph 81 of SFAS 123(R). The alternative transition method includes simplified methods to establish the beginning balance of the APIC pool related to the tax effects of employee stock-based compensation, and to determine the subsequent impact on the APIC pool and statements of cash flows of the tax effects of employee stock-based compensation awards that are outstanding upon adoption of SFAS 123(R). The guidance in this FSP is effective after November 10, 2005. Raptor may take up to one year from the later of adoption of SFAS 123(R) or the effective date of this FSP to evaluate its available transition alternatives and make its one-time election. Raptor has elected the short-form method to calculating excess tax benefits available for use in offsetting future tax shortfalls in accordance with FSP FAS 123(R)-3.

Table of Contents**Results of Operations***Three month periods ended May 31, 2009 and 2008**General and Administrative*

General and administrative expenses (including officer and employee compensation allocated to general and administrative expenses) for the quarter ended May 31, 2009 increased by \$0.14 million compared to the prior year's comparable period. The increase was primarily due to an increase of \$0.11 million in intellectual property expenses associated with preclinical and clinical programs, an increase of \$0.10 million in employee salaries, benefits, recruiting and other employment-related costs due to employee raises that occurred in July 2008 and the hiring of a Chief Medical Officer in April 2009, a \$0.09 million increase in consultant expense related to business development and strategic advisory services, a \$0.02 million increase in press releases issued, all of which were partially offset by (i) a \$0.09 million increase in allocation of support services to research and development expenses, (ii) a \$0.07 million decrease in milestone-related bonuses that occurred in the third fiscal quarter of 2008, but did not repeat in the third fiscal quarter of 2009 and (iii) a \$0.02 million decrease in amortization and depreciation due to fixed assets that became fully depreciated in the third fiscal quarter of 2009.

Research and Development

Research and development expenses (including officer and employee compensation allocated to research and development) for the quarter ended May 31, 2009 increased by \$0.3 million over the prior year's comparable period primarily due to the costs associated with the formulation manufacturing expenses of Raptor's proprietary formulation of DR Cysteamine of \$0.22 million in preparation for its clinical trial in cystinosis, a \$0.20 million increase representing its ongoing NASH clinical trial expenses, an increase of \$0.11 million in research and development consulting related to the preparation of Raptor's IND for DR Cysteamine for cystinosis, an increase of \$0.09 million in salaries and benefits due to the hiring of Raptor's director of program management in October 2008 and Raptor's Chief Medical Officer in April 2009, an increase of \$0.03 million related to preclinical testing that did not occur in the prior year, a \$0.09 increase of support services to research and development due to the increase in headcount of the research and development department, all of which were partially offset by (i) a decrease in lab collaboration fees of \$0.06 million due to the lapse of the Stanford collaboration on NeuroTransTM, (ii) a decrease of \$0.18 million in HepTideTM conjugates produced for studies in the prior year, and (iii) a decrease of \$0.2 million in clinical trial expense related to the ConviviaTM clinical trial in the prior year which did not reoccur in the current year.

Research and development expenses include the following: (in \$ millions)

| | Estimated next 12 months | Cumulative through May 31, 2009 | Three month period ended May 31, | | Nine month period ended May 31, | |
|---|--------------------------------|---------------------------------------|-------------------------------------|------|------------------------------------|------|
| Major Program (stage of development) | | | 2009 | 2008 | 2009 | 2008 |
| DR Cysteamine All Indications (clinical) | 5.1 | 4.1 | 1.3 | 0.2 | 3.1 | 0.5 |
| Convivia TM (clinical) | | 2.0 | | 0.7 | 0.3 | 1.0 |
| HepTide TM (preclinical) | 0.1 | 1.5 | 0.1 | 0.3 | 0.3 | 0.5 |
| NeuroTrans TM (preclinical) | | 0.7 | | 0.1 | 0.1 | 0.2 |
| WntTide TM (preclinical) | | 0.3 | | | 0.1 | 0.1 |
| Minor or Inactive Programs | | 0.7 | | | 0.1 | 0.1 |
| R & D Personnel and Other Costs Not Allocated to Programs | 1.8 | 4.4 | 0.5 | 0.3 | 1.4 | 1.2 |
| Total Research & Development Expenses | 7.0 | 13.7 | 1.9 | 1.6 | 5.4 | 3.6 |

Table of Contents**Major Program expenses recorded as general and administrative expenses: (in \$ millions)**

| Major Program (stage of development) | Estimated next 12 months | Cumulative through May 31, 2009 | Three month period ended May 31, | | Nine month period ended May 31, | |
|--|--------------------------|---------------------------------|----------------------------------|------|---------------------------------|------|
| | | | 2009 | 2008 | 2009 | 2008 |
| DR Cysteamine All Indications (clinical) | 0.03 | 0.17 | 0.01 | 0.01 | 0.09 | 0.04 |
| Convivia™ (clinical) | 0.01 | 0.06 | 0.02 | 0.03 | 0.02 | 0.09 |
| HepTide™ (preclinical) | 0.04 | 0.15 | 0.05 | 0.01 | 0.05 | 0.01 |
| NeuroTrans™ (preclinical) | 0.03 | 0.12 | | | 0.02 | 0.02 |
| WntTide™ (preclinical) | 0.02 | 0.05 | | | | |

Additional major program expenses include patent fees and patent expenses which were recorded as general and administrative expenses as these fees are to support patent applications (not issued patents).

Any of Raptor's major programs could be partnered for further development and/or could be accelerated, slowed or ceased due to scientific results or challenges in funding Raptor. Raptor will need significant additional funding in order to pursue its plans for the next 12 months. In addition, the timing and costs of development of Raptor's programs beyond the next 12 months is highly uncertain and difficult to estimate. See Item 1A titled Risk Factors for further discussion about the risks and uncertainties pertaining to drug development.

Current Status of Major Programs

Please refer to the section titled, "Raptor's Management's Discussion and Analysis of Financial Condition and Results of Operation" in this joint proxy statement/prospectus for a detailed discussion of each of its major programs. In summary, DR Cysteamine is being developed in cystinosis, NASH and HD. In April 2009, Raptor submitted an IND application to allow it to study DR Cysteamine in cystinosis patients in a Phase IIb clinical trial. In June 2009, Raptor began dosing patients in its cystinosis trial. In February 2009, Raptor completed enrollment of its NASH clinical trial. Both Raptor's NASH and cystinosis clinical trials are currently ongoing. Raptor anticipates studying DR Cysteamine in HD patients in the clinic in the second half of 2009.

Raptor's Convivia™ product candidate completed its initial clinical study in 2008 and it is actively seeking to partner any further development of its Convivia™ product candidate with an Asian company where its potential market exists. NeuroTrans™ is currently being studied under a collaboration agreement with Roche. HepTide™ and WntTide™ are undergoing preclinical proof of concept studies, which will require further study prior to potentially moving into a clinical phase of development.

Interest Income

Interest income decreased by \$8,000 over the equivalent quarter of the prior fiscal year due to the significant decrease in money market interest rates from 1.5% during the three month period ended May 31, 2008 to approximately 0.5% during the three month period ended May 31, 2009 and the lower cash balances maintained in the current fiscal quarter compared to the equivalent period in the prior year.

Interest expense

Interest expense decreased by \$16,000 over the equivalent quarter of the prior fiscal year due to the capitalized finder's fee for a convertible loan of 200,000 shares of Raptor's common stock valued at \$102,000, which was amortized as interest expense from August 2007 to April 2008, the term of the convertible loan. No draws were made on the convertible loan prior to its expiration in April 2008.

Table of Contents***Nine month periods ended May 31, 2009 and 2008******General and Administrative***

General and administrative expenses (including officer and employee compensation allocated to general and administrative expenses) for the nine month period ended May 31, 2009 increased by \$0.35 million compared to the prior year's comparable period. The increase was primarily due to an increase of \$0.25 million in employee salaries, bonuses, benefits and other employment-related costs due to employee raises that occurred in July 2008, milestone related bonuses paid in October 2008 and recruiting fees related to the hiring of Raptor's director of program management in October 2008 offset by prior year's bonuses not repeated in the current year, plus an increase of \$0.22 million in administrative consulting due to the retention of a strategic business advisor in May 2008, an increase of \$0.08 million of board fees and expenses due to the addition of a new board member in July 2008, an increase of \$0.03 million related to attendance at trade shows, all of which were partially offset by (i) a \$0.09 million decrease in legal fees related to due diligence and the closing of two strategic acquisitions during the prior year nine month period that did not recur in the current year, (ii) a decrease of \$0.04 million in amortization and depreciation related to fully depreciated fixed assets and (iii) the increase of support services allocation to research and development expenses of \$0.1 million.

Research and Development

Research and development expenses (including officer and employee compensation allocated to research and development) for the nine month period ended May 31, 2009 increased by \$1.73 million over the prior year's comparable period primarily due to the costs associated with the formulation manufacturing expenses of Raptor's proprietary formulation of DR Cysteamine of \$1.00 million in preparation for its clinical trial in cystinosis, an increase of \$0.50 million in research and development consulting related to the preparation for Raptor's pre-IND meeting with the FDA and in preparation for Raptor's IND submission, an increase of \$0.20 million in milestone payments for the commencement of the NASH trial in October 2008, an increase of \$0.22 million in clinical trial costs for Raptor's NASH indication, an increase of \$0.17 million in salaries and benefits due to the hiring of Raptor's director of program management in October 2008 and Raptor's Chief Medical Officer in April 2009, an increase of \$0.1 million in preclinical studies of its DR Cysteamine program in NASH which occurred in the current year, an increase of \$0.1 million in allocated support services, all of which were partially offset by (i) a decrease in lab collaboration fees of \$0.2 million due to the lapse of the Stanford collaboration on NeuroTransTM, (ii) a decrease of \$0.2 million due to the ConviviaTM clinical trial in the prior year that did not repeat in the current year, (iii) a decrease of \$0.1 million of HepTideTM conjugates that were manufactured in the prior year but did not repeat in the current year, (iv) a decrease of \$0.04 million in preclinical studies due to the reduction of resources allocated to preclinical programs and (v) a decrease of \$0.02 million in tradeshow costs which Raptor incurred in the prior year but not in the current year.

In-Process Research and Development Expenses

In-process research and development expenses decreased by \$0.2 million over the nine month period ended May 31, 2008 due to the recording of the purchase of Raptor's ConviviaTM program during the nine month period ended May 31, 2008. No such expense was incurred in the nine month period ended May 31, 2009. In-process research and development expenses were calculated based on the value of Raptor's stock issued in connection with the purchase of certain intellectual property rights to develop ConviviaTM (4-MP) for the treatment of acetaldehyde toxicity.

Interest Income

Interest income decreased by \$19,000 during the nine month period ended May 31, 2009 over the nine month period ended May 31, 2008 due to the significant decrease in money market interest rates from 4% to 4.5% in 2008 to approximately 0.5% to 1.5% in 2009, partially offset by a higher money market balance during the nine month period ended May 31, 2009.

Table of Contents***Interest expense***

Interest expense decreased by \$0.1 million in the nine month period ended May 31, 2009 over the nine month period ended May 31, 2008 due to the capitalized finder's fee of 200,000 shares of Raptor's common stock valued at \$102,000, which was amortized as interest expense from August 2007 to April 2008, the term of the convertible loan. No draws were made on the convertible loan prior to its expiration.

Year ended August 31, 2008 and 2007

Research and development expenses (including officer and employee compensation allocated to research and development) for the fiscal year ended August 31, 2008 increased by \$3.4 million over the prior fiscal year primarily due to the costs incurred during Raptor's fiscal year ended August 31, 2008 associated with its Phase IIa clinical trial for the Convivia™ program of \$0.6 million, formulation manufacturing expenses of the proprietary formulation of Convivia™ of \$0.3 million and DR Cysteamine of \$0.1 million, preclinical studies of Convivia™ of \$0.2 million and of DR Cysteamine of \$0.1 million, clinical and regulatory consulting for Convivia™ of \$0.6 million and DR Cysteamine of \$0.6 million, amortization of intangible assets related to the purchase of DR Cysteamine of \$0.1 million and incremental executive, finance and facilities costs allocated to the research and development department of Raptor's clinical division of \$0.5 million.

General and administrative expenses (including officer and employee compensation allocated to general and administrative expenses) for the fiscal year ended August 31, 2008 increased by \$0.7 million over the prior fiscal year primarily due to the costs incurred during Raptor's fiscal year ended August 31, 2008 for the patent expenses for its clinical programs of \$0.1 million, the salary and benefits of Raptor's clinical subsidiary's President \$0.3, legal and accounting expenses attributable to Raptor's clinical subsidiary of \$0.3 million.

In-process research and development expenses increased by \$0.3 million over the prior fiscal year due to the recording of the purchase of Raptor's Convivi™ program during its fiscal year ended August 31, 2008. No such expense was incurred in the prior year. In-process research and development expenses were calculated based on the value of Raptor's stock issued in connection with the purchase of certain intellectual property rights to develop Convivia™ (4-MP) for the treatment of acetaldehyde toxicity. For further details about the calculation of in-process research and development expenses, please refer to Note 6 of Raptor's audited financial statements located elsewhere in this joint proxy statement/prospectus.

Interest income decreased by \$0.07 million over the prior fiscal year due to the significant decrease in money market interest rates from 4.5% during the fiscal year ended August 31, 2007 to an average of approximately 2% during the fiscal year ended August 31, 2008, which was partially offset by the increase in money market balances during the fiscal year ended August 31, 2008 due to the \$10 million raised in May and June 2008.

Interest expense increased by \$0.1 million over the prior fiscal year due to the capitalized finder's fee of 200,000 shares of Raptor's common stock paid in connection with a convertible loan. These shares were valued at \$102,000, which was amortized as interest expense from August 2007 to April 2008, the term of the convertible loan. No draws were made on the loan prior to its expiration.

Liquidity and Capital Resources***Capital Resource Requirements***

As of May 31, 2009, Raptor had approximately \$0.5 million in cash, approximately \$0.8 million in current liabilities and approximately \$(0.1) million of net working capital deficit. Raptor's forecasted average monthly cash expenditures for the next twelve months are approximately \$691,000.

Raptor believes that its cash and cash equivalents balances as of August 27, 2009 will be sufficient to meet Raptor's obligations into the first calendar quarter of 2010. Raptor's cash and cash equivalents as of July 15,

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2009, will be sufficient to meet its minimum obligations into the fourth calendar quarter of 2009. Raptor is currently in the process of reviewing strategic partnerships, collaborations and merger candidates in order to fully fund Raptor's preclinical and clinical programs through the end of 2010. If Raptor is not able to close a strategic transaction, it anticipates raising additional capital in the fourth calendar quarter of 2009.

On April 29, 2009, in order to reflect current market prices, Raptor notified the holders of warrants purchased in the May/June 2008 private placement that Raptor was offering, in exchange for such warrants, new warrants to purchase Raptor's common stock at an exercise price of \$0.30 per share, but only to the extent such exchange of the original warrants and exercise of the new warrants, including the delivery of the exercise price, occurred on or prior to July 17, 2009. The warrants that were not exchanged prior to or on July 17, 2009 retained their original exercise prices of \$0.90 per share and original expiration date of May 21, 2010. Raptor received approximately \$2.6 million of proceeds from warrant exercises that resulted in the issuance of 8,715,000 shares of Raptor's common stock pursuant to the exchange described above.

There can be no assurance that Raptor will be able to obtain funds required for its continued operation. There can be no assurance that additional financing (including the financing that it is currently pursuing) will be available to it or, if available, that it can be obtained on commercially reasonable terms. If Raptor is not able to obtain financing on a timely basis, it will not be able to meet its obligations as they become due and it will be forced to scale down or perhaps even cease the operation of its business. This also may be the case if Raptor becomes insolvent or if it breaches its asset purchase agreement with BioMarin or its licensing agreements with Washington University and UCSD due to non-payment (and it does not cure its non-payment within the stated cure period). If this happens, Raptor would lose all rights to the RAP technology assigned to it by BioMarin and/or the rights to Mesd licensed to it by Washington University and/or the rights to DR Cysteamine licensed to it by UCSD, depending on which agreement is breached. If Raptor loses its rights to the intellectual property related to the RAP technology purchased by it from BioMarin, Raptor's agreement with Roche would likely be terminated and any milestone or royalty payments from Roche to it would thereafter cease to accrue.

Raptor will need to raise significant long-term financing in order to implement its 12 month operating plan. If Raptor is able to raise significant additional financing, for the next 12 months it intends to expend a total of approximately \$8.3 million to implement Raptor's operating plan of researching and developing its RAP based platform, its licensed technologies, as well as Convivia™ and DR Cysteamine.

Specifically, Raptor estimates its operating expenses and working capital requirements for the next 12 months to be as follows:

| | |
|--|------------------|
| Estimated spending for the next 12 months: | |
| Research and development activities | \$ 6,000,000 |
| Research and development compensation and benefits | 1,050,000 |
| General and administrative activities | 600,000 |
| General and administrative compensation and benefits | 630,000 |
| Capital expenditures | 20,000 |
| Total estimated spending for the next 12 months | \$ 8,300,000 |

Raptor anticipates that it will not be able to generate revenues from the sale of products until it further develop its drug product candidates and obtain the necessary regulatory approvals to market its future drug product candidates, which could take several years or more, if it is able to do so at all. Accordingly, Raptor's cash flow projections are subject to numerous contingencies and risk factors beyond its control, including successfully developing its drug product candidates, market acceptance of its drug product candidates, competition from well-funded competitors, and its ability to manage its expected growth. It is likely that for many years, Raptor will not be able to generate internal positive cash flow from the sales of its drug product candidates sufficient to meet its operating and capital expenditure requirements.

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There is substantial doubt about Raptor's ability to continue as a going concern as the continuation of its business is dependent upon obtaining further long-term financing, the successful development of its drug product candidates and related technologies, the successful and sufficient market acceptance of any product offerings that it may introduce and, finally, the achievement of a profitable level of operations. The issuance of additional equity securities by Raptor is likely to result in a significant dilution in the equity interests of its current stockholders. Obtaining commercial loans, assuming those loans would be available, including on acceptable terms, will increase Raptor's liabilities and future cash commitments.

Research and Development Activities

Raptor plans to conduct further research and development, seeking to improve upon its RAP-based and in-licensed technology and run several clinical trials for DR Cysteamine in the next 12 months. Raptor plans to conduct research and development activities by its own laboratory staff and also by engaging contract research organizations, clinical research organizations and contract manufacturing organizations. Raptor also plans to incur costs for the production of its clinical study drug candidate, DR Cysteamine, clinical trials, clinical and medical advisors and consulting and collaboration fees. Assuming Raptor obtains additional long-term financing, it anticipates its research and development costs for the next 12 months, excluding in-house research and development compensation, will be approximately \$6.0 million. Raptor will need to scale down its research and development plans and expenses detailed herein in the next fiscal year if it is not able to raise significant additional financing over the next 12 months as detailed in the section titled, "Capital Resource Requirements."

Officer and Employee Compensation

Raptor currently employs five executive officers. Raptor also has two permanent scientific staff members, one permanent clinical development staff member, one permanent finance staff member and one temporary part-time research intern. Assuming Raptor obtains significant additional long-term financing, it anticipates spending up to approximately \$1.68 million in officer and employee compensation during the next 12 months, of which \$1.05 million is allocated to research and development expenses and \$0.63 million is allocated to general and administrative expenses. Raptor will need to scale down its officer and employee compensation expenses detailed herein in the next fiscal year if it is not able to raise significant additional financing over the next 12 months as detailed in the section titled, "Capital Resource Requirements."

General and Administrative

Assuming Raptor obtains additional long-term financing, it anticipates spending approximately \$0.60 million on general and administrative costs in the next 12 months. These costs will consist primarily of legal and accounting fees, patent legal fees, investor relations expenses, board fees and expenses, insurance, rent and facility support expenses, excluding finance and administrative compensation. Raptor will need to scale down its general and administrative plans and expenses detailed herein in the next fiscal year if it is not able to raise significant additional financing over the next 12 months as detailed in the section titled, "Capital Resource Requirements."

Capital Expenditures

Raptor anticipates spending approximately \$20,000 in the next 12 months on capital expenditures for lab equipment and office furniture. Raptor will need to scale down its capital expenditures detailed herein in the next fiscal year if it is not able to raise significant additional financing over the next 12 months as detailed in the section titled, "Capital Resource Requirements."

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Contractual Obligations with BioMarin

Pursuant to the terms of the asset purchase agreement Raptor entered into with BioMarin for the purchase of intellectual property related to it RAP based technology (including NeuroTrans™), Raptor is obligated to make the following milestone payments to BioMarin upon the achievement of the following events:

\$50,000 (paid by Raptor in June 2006) within 30 days after it receive total aggregate debt or equity financing of at least \$2,500,000;

\$100,000 (paid by Raptor in June 2006) within 30 days after it receive total aggregate debt or equity financing of at least \$5,000,000;

\$500,000 upon Raptor's filing and acceptance of an investigational new drug application for a drug product candidate based on its NeuroTrans™ product candidate;

\$2,500,000 upon Raptor's successful completion of a Phase II human clinical trial for a drug product candidate based on its NeuroTrans™ product candidate;

\$5,000,000 upon Raptor's successful completion of a Phase III human clinical trial for a drug product candidate based on its NeuroTrans™ product candidate;

\$12,000,000 within 90 days of Raptor's obtaining marketing approval from the FDA or other similar regulatory agencies for a drug product candidate based on its NeuroTrans™ product candidate;

\$5,000,000 within 90 days of Raptor's obtaining marketing approval from the FDA or other similar regulatory agencies for a second drug product candidate based on its NeuroTrans™ product candidate;

\$5,000,000 within 60 days after the end of the first calendar year in which Raptor's aggregated revenues derived from drug product candidates based on its NeuroTrans™ product candidate exceed \$100,000,000; and

\$20,000,000 within 60 days after the end of the first calendar year in which Raptor's aggregated revenues derived from drug product candidates based on its NeuroTrans™ product candidate exceed \$500,000,000.

In addition to these milestone payments, Raptor is also obligated to pay BioMarin a royalty at a percentage of its aggregated revenues derived from drug product candidates based on its NeuroTrans™ product candidate. On June 9, 2006, Raptor made a milestone payment in the amount of \$150,000 to BioMarin because it raised \$5,000,000 in its May 25, 2006 private placement financing. If Raptor becomes insolvent or if it breaches its asset purchase agreement with BioMarin due to non-payment and it does not cure its non-payment within the stated cure period, all of Raptor's rights to RAP technology (including NeuroTrans™) will revert back to BioMarin.

Contractual Obligations with Thomas E. Daley (assignee of the dissolved Convivia, Inc.)

Pursuant to the terms of the asset purchase agreement, or the Asset Purchase Agreement that Raptor entered into with Convivia, Inc. and Thomas E. Daley, pursuant to which it purchased intellectual property related to Raptor's 4-MP product candidate program, Mr. Daley will be entitled to receive the following, if at all, in such amounts and only to the extent certain future milestones are accomplished by Raptor, as set forth below:

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100,000 shares of Raptor's restricted, unregistered common stock within fifteen (15) days after it enters into a manufacturing license or other agreement to produce any product that is predominantly based upon or derived from any assets purchased from Convivia, or Purchased Assets, in quantity, referred to as Product, if such license agreement is executed within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 50,000 shares of Raptor's restricted, unregistered common stock. Should Raptor obtain a second such license or agreement for a Product, Mr. Daley will be entitled to receive 50,000 shares of Raptor's restricted, unregistered common stock within 30 days of execution of such second license or other agreement. On March 31, 2008, Raptor issued 100,000 shares of its

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common stock valued at \$56,000 to Mr. Daley pursuant to this milestone reflecting the execution of an agreement to supply the active pharmaceutical ingredient for Convivia™, combined with the execution of a formulation agreement to produce the oral formulation of Convivia™.

100,000 shares of Raptor's restricted, unregistered common stock within fifteen (15) days after Raptor receive its first patent allowance on any patents which constitute part of the Purchased Assets in any one of certain predetermined countries, or Major Market.

50,000 shares of Raptor's restricted, unregistered common stock within fifteen (15) days after it receive Raptor's second patent allowance on any patents which constitute part of the Purchased Assets different from the patent referenced in the immediately preceding bullet point above in a Major Market.

100,000 shares of Raptor's restricted, unregistered common stock within fifteen (15) days of completion of predetermined benchmarks in a Major Market by it or Raptor's licensee of the first phase II human clinical trial for a Product, or Successful Completion if such Successful Completion occurs within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 50,000 shares of Raptor's restricted, unregistered common stock within thirty (30) days of such Successful Completion. In October 2008, it issued 100,000 shares of Raptor's common stock valued at \$27,000 and a \$30,000 cash bonus (pursuant to Mr. Daley's employment agreement) to Mr. Daley pursuant to the fulfillment of this milestone.

50,000 shares of Raptor's restricted, unregistered common stock within fifteen (15) days of a Successful Completion in a Major Market by Raptor or its licensee of the second phase II human clinical trial for a Product (other than the Product for which a distribution is made under the immediately preceding bullet point above).

100,000 shares of Raptor's restricted, unregistered common stock within fifteen (15) days after Raptor or its licensee applies for approval to market and sell a Product in a Major Market for the indications for which approval is sought, or Marketing Approval.

50,000 shares of Raptor's restricted, unregistered common stock within fifteen (15) days after Raptor or its licensee applies for Marketing Approval in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding bullet point above).

200,000 shares of Raptor's restricted, unregistered common stock within fifteen (15) days after Raptor or its licensee obtains the first Marketing Approval for a Product from the applicable regulatory agency in a Major Market.

100,000 shares of Raptor's restricted, unregistered common stock within fifteen (15) days after Raptor or its licensee obtains Marketing Approval for a Product from the applicable regulatory agency in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding bullet point above).

As discussed above, in aggregate, Raptor issued to Mr. Daley, 200,000 shares of Raptor's common stock valued at \$83,000 and paid \$30,000 in cash bonuses related to Convivia™ milestones along with another \$20,000 in cash bonuses related to employment milestones pursuant to Mr. Daley's employment agreement.

Contractual Obligations with Former Encode Securityholders

Pursuant to the terms of the merger agreement (Merger Agreement) it entered into with Encode Pharmaceuticals, Inc. and Nicholas Stergis, former Encode securityholders will be entitled to receive the following, if at all, in such amounts and only to the extent certain future milestones are accomplished by it, as set forth below:

Restricted, unregistered common stock, stock options to purchase Raptor's common stock, and warrants to purchase Raptor's common stock in an amount equal to, in the aggregate, Five Hundred Thousand (500,000) shares of Raptor's common stock upon the receipt by it at any time prior to the

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fifth-year anniversary of the Merger Agreement of approval to market and sell a product for the treatment of Cystinosis predominantly based upon and derived from the assets acquired from Encode, or Cystinosis Product, from the applicable regulatory agency (e.g., FDA and European Agency for the Evaluation of European Medical Products or EMEA) in a given major market in the world.

Restricted, unregistered common stock, stock options to purchase Raptor's common stock, and warrants to purchase Raptor's common stock in an amount equal to One Million Nine Hundred Thousand (1,900,000) shares of Raptor's common stock upon the receipt by it at any time prior to the fifth anniversary of the Merger Agreement of approval to market and sell a product, other than a Cystinosis Product, predominantly based upon and derived from the assets acquired from Encode, from the applicable regulatory agency (e.g., FDA and EMEA) in a given major market in the world.

If within five years from the date of the Merger Agreement, there occurs a transaction or series of related transactions that results in the sale of all or substantially all of the assets acquired from Encode other than to Raptor's affiliate in such case where such assets are valued at no less than \$2.5 million, the former Encode stockholders will be entitled to receive, in the aggregate, restricted, unregistered common stock, stock options to purchase Raptor's common stock, and warrants to purchase Raptor's common stock in an amount equal to 2.4 million shares of common stock, less the aggregate of all milestone payments previously made or owing, if any.

Pursuant to the terms of the Merger Agreement, it will at any time following 140 days from the closing date of the merger and prior to the expiration of the fourth anniversary of the Merger Agreement, grant to an Encode stockholder the right to demand the registration of its portion of the initial restricted, unregistered common stock issued to it in connection with the execution of the Merger Agreement and future restricted, unregistered common stock issued to it in the future relating to the milestone payments outlined above, if any.

Contractual Obligations with UCSD

As a result of the merger of Raptor's clinical subsidiary and Encode, it received the exclusive worldwide license to DR Cysteamine, or License Agreement for use in the field of human therapeutics for metabolic and neurologic disorders, developed by clinical scientists at the UCSD, School of Medicine. DR Cysteamine is a proprietary, delayed-release, enteric-coated microbead formulation of cysteamine bitartrate, a cystine depleting agent currently approved by the FDA. Cysteamine bitartrate is prescribed for the management of the genetic disorder known as cystinosis, a lysosomal storage disease. The active ingredient in DR Cysteamine has also demonstrated potential in studies as a treatment for other metabolic and neurodegenerative diseases, such as HD and NASH.

In consideration of the grant of the license, prior to the merger, Encode paid an initial license fee and Raptor will be obligated to pay an annual maintenance fee of \$15,000 until Raptor begins commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, Raptor will be obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year Raptor begins commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, Raptor is obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, Raptor is obligated to, among other things, annually spend at least \$200,000 for the development of products (which, as of Raptor's fiscal year ended August 31, 2008, it has fulfilled by spending approximately \$900,000 on such programs) pursuant to the License Agreement. As of May 31, 2009, Raptor accrued \$40,000 due to UCSD for the milestone related to the first patient dosing in the NASH trial which commenced in October 2008. To the extent that Raptor fails to

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perform any of its obligations under the License Agreement, UCSD may terminate the license or otherwise cause the license to become non-exclusive.

Off-Balance Sheet Arrangements

Raptor does not have any outstanding derivative financial instruments, off-balance sheet guarantees, interest rate swap transactions or foreign currency contracts. Raptor does not engage in trading activities involving non-exchange traded contracts.

Reverse Acquisition

Raptor treated the merger of Raptor Pharmaceuticals Corp., a Delaware corporation, into its subsidiary, Raptor Pharmaceutical Inc., as a reverse acquisition and the reverse acquisition has been accounted for as a recapitalization.

For accounting purposes, Raptor Pharmaceutical Inc. is considered the acquirer in the reverse acquisition. The historical financial statements are those of Raptor Pharmaceutical Inc. consolidated with its parent, Raptor Pharmaceuticals Corp. and its other subsidiary, Raptor Therapeutics. Earnings per share for periods prior to the merger have been restated to reflect the number of equivalent shares received by the acquiring company.

Going Concern

Due to the uncertainty of Raptor's ability to meet its current operating and capital expenses, in their reports on Raptor's audited financial statements for the years ended August 31, 2008, 2007 and for the period September 8, 2005 (inception) to August 31, 2006, Raptor's independent registered public accounting firm, Burr, Pilger & Mayer, LLP included an explanatory paragraph regarding substantial doubt about its ability to continue as a going concern. Raptor's financial statements contain additional note disclosures describing the circumstances that led to this disclosure by its independent registered public accounting firm.

New Accounting Pronouncements.

In September 2006, the Financial Accounting Standards Board (FASB) issued SFAS No. 157, *Fair Value Measurements* (SFAS 157). SFAS 157 defines fair value, establishes a framework for measuring fair value in accordance with generally accepted accounting principles, and expands disclosures about fair value measurements. SFAS 157 does not require any new fair value measurements; rather, it applies under other accounting pronouncements that require or permit fair value measurements. The provisions of SFAS 157 are to be applied prospectively as of the beginning of the fiscal year in which it is initially applied, with any transition adjustment recognized as a cumulative-effect adjustment to the opening balance of retained earnings. The provisions of SFAS 157 are effective for fiscal years beginning after November 15, 2007; therefore, Raptor adopted SFAS 157 as of September 1, 2008 for financial assets and liabilities. In accordance with FASB Staff Position 157-2, *Effective Date of FASB Statement No. 157*, Raptor elected to defer the adoption of the provisions of SFAS 157 for its non-financial assets and non-financial liabilities. Raptor has determined that SFAS 157 had no material impact on its financial results for the three and nine month periods ended May 31, 2009.

In February 2007, the FASB issued SFAS 159, *The Fair Value Option for Financial Assets and Financial Liabilities, Including an Amendment of FASB Statement No. 115*, which permits the measurement of many financial instruments and certain other asset and liabilities at fair value on an instrument-by-instrument basis (the fair value option). The guidance is applicable for fiscal years beginning after November 15, 2007; therefore, Raptor adopted SFAS 159 as of September 1, 2008. Raptor has determined that SFAS 159 had no material impact on its financial results for the three and nine month periods ended May 31, 2009.

In June 2007, the Emerging Issues Task Force (EITF) reached a consensus on EITF No. 07-3, *Accounting for Nonrefundable Advance Payments for Goods or Services to Be Used in Future Research and Development Activities* (EITF 07-3). EITF 07-3 specifies the timing of expense recognition for non-refundable advance

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payments for goods or services that will be used or rendered for research and development activities. EITF 07-3 was effective for fiscal years beginning after December 15, 2007, and early adoption is not permitted; therefore, Raptor adopted EITF 07-3 as of September 1, 2008. Raptor has determined that EITF 07-3 had no material impact on Raptor's financial results for the three and nine month periods ended May 31, 2009.

In December 2007, the EITF reached a consensus on EITF No. 07-1, *Accounting for Collaborative Arrangements Related to the Development and Commercialization of Intellectual Property* (EITF 07-1). EITF 07-1 discusses the appropriate income statement presentation and classification for the activities and payments between the participants in arrangements related to the development and commercialization of intellectual property. The sufficiency of disclosure related to these arrangements is also specified. EITF 07-1 is effective for fiscal years beginning after December 15, 2008. As a result, EITF 07-1 is effective for it as of September 1, 2009. Raptor is currently evaluating the impact of EITF 07-1 on its financial position and results of operations. Based upon the nature of Raptor's business, EITF 07-1 could have a material impact on its financial position and consolidated results of operations in future years.

In December 2007, FASB issued Statement No. 141 (Revised 2007), *Business Combinations* (SFAS 141(R)) and SFAS No. 160, *Accounting and Reporting of Non-controlling Interests in Consolidated Financial Statements*, an amendment of ARB No. 51 (SFAS 160). These statements will significantly change the financial accounting and reporting of business combination transactions and non-controlling (or minority) interests in consolidated financial statements. SFAS 141(R) requires companies to: (i) recognize, with certain exceptions, 100% of the fair values of assets acquired, liabilities assumed, and non-controlling interests in acquisitions of less than a 100% controlling interest when the acquisition constitutes a change in control of the acquired entity; (ii) measure acquirer shares issued in consideration for a business combination at fair value on the acquisition date; (iii) recognize contingent consideration arrangements at their acquisition-date fair values, with subsequent changes in fair value generally reflected in earnings; (iv) with certain exceptions, recognize pre-acquisition loss and gain contingencies at their acquisition-date fair values; (v) capitalize in-process research and development (IPR&D) assets acquired; (vi) expense, as incurred, acquisition-related transaction costs; (vii) capitalize acquisition-related restructuring costs only if the criteria in SFAS No. 146, *Accounting for Costs Associated with Exit or Disposal Activities*, are met as of the acquisition date; and (viii) recognize changes that result from a business combination transaction in an acquirer's existing income tax valuation allowances and tax uncertainty accruals as adjustments to income tax expense. SFAS 141(R) is required to be adopted concurrently with SFAS 160 and is effective for business combination transactions for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008 (Raptor's fiscal 2010). Early adoption of these statements is prohibited. Raptor believes the adoption of these statements will have a material impact on significant acquisitions, if any, completed after September 1, 2009.

In March 2008, the FASB issued SFAS No. 161, *Disclosures about Derivative Instruments and Hedging Activities* (SFAS 161). This statement will require enhanced disclosures about derivative instruments and hedging activities to enable investors to better understand their effects on an entity's financial position, financial performance, and cash flows. It is effective for financial statements issued for fiscal years and interim periods beginning after November 15, 2008, with early application encouraged. Raptor adopted SFAS 161 on December 1, 2008 and has determined that SFAS 161 had no material impact on its financial results for the three and nine month periods ended May 31, 2009.

In May 2008, FASB issued SFAS No. 162, *The Hierarchy of Generally Accepted Accounting Principles* (SFAS 162). This standard is intended to improve financial reporting by identifying a consistent framework, or hierarchy, for selecting accounting principles to be used in preparing financial statements that are presented in conformity with U.S. GAAP for non-governmental entities. SFAS No. 162 is effective 60 days following the U.S. Securities and Exchange Commission's approval of the Public Company Accounting Oversight Board amendments to AU Section 411, the meaning of Present Fairly in Conformity with GAAP . Raptor has determined it did not have a material impact on its condensed consolidated financial statements.

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In May 2008, the FASB released FASB Staff Position (FSP) APB 14-1 *Accounting For Convertible Debt Instruments That May Be Settled in Cash Upon Conversion (Including Partial Cash Settlement)* (FSP APB 14-1) that alters the accounting treatment for convertible debt instruments that allow for either mandatory or optional cash settlements. FSP APB 14-1 specifies that issuers of such instruments should separately account for the liability and equity components in a manner that will reflect the entity's nonconvertible debt borrowing rate when interest cost is recognized in subsequent periods. Furthermore, it would require recognizing interest expense in prior periods pursuant to retrospective accounting treatment. FSP APB 14-1 is effective for financial statements issued for fiscal years beginning after December 15, 2008; therefore, Raptor anticipates adopting FSP APB 14-1 as of September 1, 2009. Raptor is in the process of evaluating the impact, if any, of FSP APB 14-1 on its condensed consolidated financial statements.

In June 2008, the FASB issued EITF No. 07-5 (EITF 07-5), *Determining Whether an Instrument (or Embedded Feature) is Indexed to an Entity's Own Stock*. EITF 07-5 requires entities to evaluate whether an equity-linked financial instrument (or embedded feature) is indexed to its own stock by assessing the instrument's contingent exercise provisions and settlement provisions. Instruments not indexed to their own stock fail to meet the scope exception of SFAS No. 133, *Accounting for Derivative Instruments and Hedging Activities*, paragraph 11(a), and should be classified as a liability and marked-to-market. The statement is effective for fiscal years beginning after December 15, 2008 and interim periods within those fiscal years and is to be applied to outstanding instruments upon adoption with the cumulative effect of the change in accounting principle recognized as an adjustment to the opening balance of retained earnings. Raptor is adopting EITF 07-5 as of September 1, 2009 and is in the process of evaluating the impact, if any, of EITF 07-5 on its condensed consolidated financial statements.

In April 2008, the FASB issued FSP SFAS No. 142-3, *Determination of the Useful Life of Intangible Assets* (FSP SFAS 142-3). FSP SFAS 142-3 provides guidance with respect to estimating the useful lives of recognized intangible assets acquired on or after the effective date and requires additional disclosure related to the renewal or extension of the terms of recognized intangible assets. FSP SFAS 142-3 is effective for fiscal years and interim periods beginning after December 15, 2008. Raptor is adopting FSP SFAS 142-3 as of September 1, 2009 and are currently evaluating the impacts and disclosures of this standard, but do not expect FSP SFAS 142-3 to have a material impact on its condensed consolidated financial statements.

In May 2009, the FASB issued SFAS No. 165, *Subsequent Events* (SFAS 165). SFAS 165 establishes general standards of accounting for and disclosure of events that occur after the balance sheet date but before financial statements are issued or are available to be issued. SFAS 165 is effective for fiscal years and interim periods ending after June 15, 2009. Raptor is adopting SFAS 165 as of September 1, 2009 and does not expect it to have a material impact on its condensed consolidated financial statements.

Quantitative And Qualitative Disclosures About Market Risk.

Interest Rate Market Risk

Raptor's exposure to market risk for changes in interest rates relates primarily to Raptor's investment portfolio. By policy, it places Raptor's investments with highly rated credit issuers and limit the amount of credit exposure to any one issuer. As stated in Raptor's policy, it seeks to improve the safety and likelihood of preservation of Raptor's invested funds by limiting default risk and market risk.

Raptor mitigates default risk by investing in high credit quality securities and by positioning its portfolio to respond appropriately to a significant reduction in a credit rating of any investment issuer or guarantor. The portfolio includes only marketable securities with active secondary or resale markets to ensure portfolio liquidity.

As of May 31, 2009, Raptor's investment portfolio does not include any investments with significant exposure to the subprime mortgage market issues. Based on Raptor's investment portfolio, which consists 100%

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of money market accounts, and interest rates at May 31, 2009, it believes that a 100 basis point decrease in interest rates could result in a potential loss of future interest income of approximately \$4,930 annually, however it would have no effect on the fair value of the money market principal balances.

Of Raptor's total consolidated cash and cash equivalent balance of approximately \$0.5 million, its money market balances represent \$0.3 million or 60%.

Raptor's debt obligations consist of its capital lease to finance its photocopier, which carries a fixed imputed interest rate and, as a result, it is not exposed to interest rate market risk on its capital lease obligations. The carrying value of Raptor's capital lease obligation approximates its fair value at May 31, 2009.

Table of Contents**MANAGEMENT FOLLOWING THE MERGER****Executive Officers, Directors and Other Key Employees*****Resignation of TorreyPines Current Executive Officers***

Pursuant to the merger agreement, all of TorreyPines' current executive officers will resign immediately prior to the completion of the merger. Each of TorreyPines' three executive officers are party to employment agreements with TPTX, Inc., a wholly-owned subsidiary of TorreyPines, that will become effective on the closing of the merger, assuming the TorreyPines stockholders approve the merger. Pursuant to the employment agreements each of the current TorreyPines executive officers will be paid by TPTX, Inc. following the merger through February 28, 2010, whether or not they remain employees of TPTX, Inc. following the merger. In addition, the employment agreements provide for bonus payments to each of the executives in the event that TPTX, Inc. is able to secure funding, a partnership, sale or similar transaction related to NGX426 in excess of \$10 million on or before February 28, 2010. Such employment agreements are discussed in greater detail in the section titled, "The Merger Interests of TorreyPines Directors and Executive Officers in the Merger Employment Agreements Following the Merger" in this joint proxy statement/prospectus.

Executive Officers, Directors and Other Key Employees of the Combined Company Following the Merger

TorreyPines' board of directors is currently comprised of four directors. Pursuant to the merger agreement, all of TorreyPines' current directors will resign immediately prior to the completion of the merger. Following the merger, the board of directors will be comprised of four directors from Raptor.

Following the merger, the management team of the combined company is expected to be composed of the management team of Raptor. The following table lists the names and ages as of August 27, 2009 and positions of the individuals who are expected to serve as executive officers, directors and other key employees of the combined company upon completion of the merger:

| Name | Age | Position |
|---|------------|---|
| Executive Officers and Directors | | |
| Christopher M. Starr, Ph.D. | 57 | Chief Executive Officer, President and Director |
| Todd C. Zankel, Ph.D. | 46 | Chief Scientific Officer |
| Thomas (Ted) E. Daley | 46 | President, Raptor Therapeutics Inc. (f/k/a Benu Pharmaceuticals Inc.) |
| Patrice P. Rioux., M.D., Ph.D. | 58 | Chief Medical Officer, Raptor Therapeutics Inc. |
| Kim R. Tsuchimoto, C.P.A. | 46 | Chief Financial Officer, Treasurer and Secretary |
| Raymond W. Anderson | 66 | Director |
| Erich Sager | 51 | Director |
| Richard Franklin, M.D., Ph.D. | 63 | Director |
| Directors | | |

Christopher M. Starr, Ph.D. is Raptor's co-founder, and has served as Chief Executive Officer, President and director since Raptor's inception in 2006. Dr. Starr has served as Chief Executive Officer of Raptor's wholly-owned subsidiary, Raptor Pharmaceutical Inc., since its inception in September 2005. Dr. Starr co-founded BioMarin Pharmaceutical Inc. (BioMarin) in 1997 where he last served as Senior Vice President and Chief Scientific Officer prior to joining Raptor in 2006. As Senior Vice President at BioMarin, Dr. Starr was responsible for managing a Scientific Operations team of 181 research, process development, manufacturing and quality personnel through the successful development of commercial manufacturing processes for its enzyme replacement products, and supervised the cGMP design, construction and licensing of BioMarin's proprietary biological manufacturing facility. From 1991 to 1998, Dr. Starr supervised research and commercial programs at BioMarin's predecessor company, Glyko, Inc., where he served as Vice President of Research and Development.

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Prior to his tenure at Glyko, Inc., Dr. Starr was a National Research Council Associate at the National Institutes of Health. Dr. Starr earned a B.S. from Syracuse University and a Ph.D. in Biochemistry and Molecular Biology from the State University of New York Health Science Center, in Syracuse, New York.

Raymond W. Anderson has served as a director of Raptor since May 25, 2006 and is the Chief Financial Officer and Vice President, Finance & Administration of Dow Pharmaceutical Sciences, Inc. Mr. Anderson has more than 30 years of healthcare industry experience, primarily focused in financial management within the biopharmaceutical sector. Prior to joining Dow in 2003, he was Chief Financial Officer for Transurgical, Inc., a private medical technology company. Prior to that, Mr. Anderson served as Chief Operating Officer and Chief Financial Officer at BioMarin from June 1998 to January 2002. Prior to June 1998, Mr. Anderson held similar executive-level positions with other biopharmaceutical companies including Syntex, Chiron, Glycomed and Fusion Medical Technologies. Mr. Anderson holds an M.B.A. from Harvard University, an M.S. in Administration from George Washington University, and a B.S. in Engineering from the United States Military Academy.

Erich Sager has served as a director of Raptor since May 25, 2006. He is a founding partner of Limetree Capital SA, a Swiss-based investment banking boutique. Mr. Sager also serves as Chairman and member of the board of directors at Calltrade Carrier Services AG, a European wholesale phone operator, and has held such position since 2004. He is also a current Board member of Zecotek Medical Systems Inc. and Pulse Capital Corp. Mr. Sager served on the board of directors of BioMarin Pharmaceutical Inc. from November 1997 to March 2006 and as Chairman of LaMont Asset Management SA, a private investment management firm, from September 1996 until August 2004. Mr. Sager has held the position of Senior Vice President, Head of the Private Banking for Dresdner Bank (Switzerland) Ltd., Vice President, Private Banking, Head of the German Desk for Deutsche Bank (Switzerland) Ltd., and various positions at banks in Switzerland. Mr. Sager received a business degree from the School of Economics and Business Administration, Zurich, Switzerland.

Richard L. Franklin, M.D., Ph.D. has served as a director of Raptor since July 2008 and has served as Chairman of the board of directors of SyntheMed, Inc., a biomaterials company engaged in the development and commercialization of medical devices, since June 2003 and as a director of SyntheMed, Inc., since December 2000. Since September 2002, Dr. Franklin has been Chairman of DMS Data Systems, an internet-based information services company. From May 1996 to September 2002, Dr. Franklin had been Chief Executive of Phairson, Ltd., a medical product development company. From January 1991 to May 1996, Dr. Franklin was founder and principal of Richard Franklin & Associates and from January 1988 to December 1990, Dr. Franklin was with Boston Capital Group, both of which are consulting firms to the healthcare industry. From July 1986 to December 1987, Dr. Franklin was head of Healthcare Corporate Finance at Tucker Anthony, an investment banking firm.

Independence of Raptor's Board of Directors

Raptor's board of directors has determined that all members of the Raptor board of directors are independent (as independence is currently defined in Rule 5605(a)(2) of the NASDAQ listing standards), except for Dr. Starr and Mr. Sager. Raptor's board of directors has determined that all members of the Raptor Audit Committee are independent (as independence is currently defined in Rule 5605(c)(2)(A)(i) and (ii) of the NASDAQ listing standards), except for Mr. Sager.

Executive Officers

Todd C. Zankel Ph.D is a co-founder of Raptor and has been Chief Scientific Officer of its wholly-owned subsidiary, Raptor Pharmaceutical Inc., since its inception in 2006. Dr. Zankel has served as Raptor's Chief Scientific Officer since May 25, 2006. From 1997 to 2005, Dr. Zankel served as a Senior Director of Research at BioMarin. Prior to 1997, Dr. Zankel was a fellow for the National Institutes of Health at the Plant Gene Expression Center in Berkeley, California and at the Swiss Institute of Technology in Zurich, Switzerland. Dr. Zankel has been the author of a number of peer-reviewed articles in a variety of scientific areas. Dr. Zankel earned a B.A. from Reed College in Portland, Oregon and a Ph.D. from Columbia University.

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Thomas (Ted) E. Daley joined Raptor as President and a board member of Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) following the acquisition by Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) of Convivia, Inc., which Mr. Daley founded. Mr. Daley was co-founder, VP business development and chief operating officer of Instill Corporation, a leading electronic commerce services provider to the US foodservice industry. Between 1993 and 2001 Mr. Daley helped raise over \$50 million in venture capital and build Instill to a 150+ person operation with a nationwide customer base. After leaving Instill, from 2001-2007, Mr. Daley served in executive and consulting roles to a number of technology startup companies including MetricStream, Inc., PartsRiver and Certicom Security. Prior to that time, Mr. Daley worked in operations management for Anheuser-Busch, Inc., and consulted to Gordon Biersch Brewing Company and Lion Breweries (New Zealand). Mr. Daley received a BS in Fermentation Science from University of California at Davis, and an MBA from Stanford University.

Patrice P. Rioux, M.D., Ph.D. joined Raptor as Chief Medical Officer of Raptor's clinical subsidiary, Raptor Therapeutics Inc. Prior to joining Raptor in April 2009, from November 2008 until March 2009, Dr. Rioux served as Chief Medical Officer of FerroKin Biosciences, an early-stage developer of iron chelator for treatment of anemias. From May 2005 to October 2008, he was Chief Medical Officer and Vice President Clinical/Regulatory for Edison Pharmaceuticals, which focused on developing drugs to treat inherited and acquired energy impairment diseases. From January 2004 through March 2006, Dr. Rioux was an independent clinical operations consultant. Dr. Rioux's three-decade career includes positions at Repligen Corp., Arrow International, Variagenics, Inc., Biogen and GRP (Groupement de Recherche en Pharmacologie). From 1975 to 1995, Dr. Rioux was a researcher in Clinical Research and Epidemiology at INSERM (Institut National de la Sante et de la Recherche Medicale), a French organization that supports national research in the medical field. Educated in France, Dr. Rioux has an M.D., a Ph.D. in Mathematical Statistics, and a Masters degree in Pharmacology.

Kim R. Tsuchimoto, C.P.A., has served as the Chief Financial Officer, Treasurer and Secretary of Raptor's wholly-owned subsidiary, Raptor Pharmaceutical Inc., since its inception in 2006 and currently serves as Raptor's Chief Financial Officer, Secretary and Treasurer since May 25, 2006. Prior to this, Ms. Tsuchimoto served as Interim Controller at International Microcomputer Software, Inc., a software and Internet content company, from October 2005 to March 2006. From June 2005 to August 2005, Ms. Tsuchimoto served as Assistant Vice President, Controller at SpatialLight Inc., a high technology company. From February 1997 to June 2005, Ms. Tsuchimoto served at BioMarin and its predecessor company, Glyko, Inc., most recently as Vice President, Treasurer for two years, Vice President, Controller for two years and prior to that, as Controller. Prior to her employment at BioMarin, Ms. Tsuchimoto served as Controller of a marketing consulting firm and an international venture capital firm and worked as a staff accountant in a local public accounting firm. Ms. Tsuchimoto is an inactive licensed California Certified Public Accountant and holds a B.S. in Business Administration with an emphasis in Accounting from San Francisco State University.

Executive Compensation and Option Grants

Compensation Discussion and Analysis

Overview

The Compensation Committee of Raptor's board of directors has overall responsibility for the compensation program for Raptor's executive officers. Specifically, Raptor's Compensation Committee establishes policies and otherwise discharges the responsibilities of Raptor's board of directors with respect to the compensation of Raptor's executive officers, senior management, and other employees. In evaluating executive officer pay, Raptor's Compensation Committee may retain the services of an independent compensation consultant or research firm and consider recommendations from the chief executive officer and persons serving in supervisory positions over a particular officer or executive officer with respect to goals and compensation of the other executive officers. The executive officers are not present or involved in deliberations concerning their compensation. Raptor's Compensation Committee assesses the information it receives in accordance with its business judgment. All decisions with respect to executive compensation, other than compensation for Raptor's

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Chief Executive Officer, are first approved by Raptor's Compensation Committee and then submitted, together with the Compensation Committee's recommendations, to Raptor's full board of directors for final approval. Compensation of Raptor's Chief Executive Officer is approved only by Raptor's Compensation Committee.

Raptor chose to pay the various elements of compensation discussed in order to attract and retain the necessary executive talent, reward annual performance and provide incentive for primarily long-term strategic goals, while considering short-term performance.

Elements of compensation for Raptor's executives generally include:

base salary (typically subject to upward adjustment annually based on inflation factors, industry competitive salary levels, and individual performance);

cash bonuses;

stock option awards;

401(k) plan contributions; and

health, disability and life insurance.

Raptor believes that the compensation of Raptor's executives should reflect their success in attaining key Raptor objectives and individual factors. The key Raptor objectives include: (1) establishing and executing on program milestones within planned budgetary expenditures; (2) securing adequate funds to achieve program objectives and to maintain Raptor's solvency and moderate financial risk; (3) meeting or exceeding program timelines and milestones; (4) expanding Raptor's preclinical product pipeline through creation of novel proprietary products or by utilization of technology, or acquiring or in-licensing new preclinical or clinical products and technology; (5) creating corporate partnerships, contracts, collaborations and out-licensing product technologies to achieve strategic objectives; (6) submitting and receiving satisfactory results of regulatory submissions; (7) establishing long-term competitive advantages, which leads to attaining an increased market price for Raptor's stock; (8) asset growth; and (9) developing a strong intellectual property position, which enhances the value of Raptor's products and technologies.

The key individual factors for each executive include: (1) the value of their unique skills and capabilities to support long-term performance of Raptor; (2) performance of their management responsibilities; (3) whether an increase in responsibility or change in title is warranted; (4) leadership qualities; (5) business responsibilities; (6) current compensation arrangements, especially in comparison to the compensation of other executives in similar positions in competitive companies within Raptor's industry; (7) short- and long-term potential to enhance stockholder value; and (8) contribution as a member of Raptor's executive management team.

Raptor's allocation between long-term and currently paid compensation is intended to ensure adequate base compensation to attract and retain personnel, while providing incentives to maximize long-term value for Raptor and Raptor's stockholders. Raptor provides cash compensation in the form of base salary and annual, discretionary cash bonuses to reward performance against pre-set written goals and objectives. Raptor provides non-cash compensation to reward performance against specific objectives and long-term strategic goals. Raptor's compensation package for its executive officers for the Fiscal Year 2008 ranges from 100% to 77% in cash compensation and 0% to 23% in non-cash compensation, including benefits and equity-related awards. Raptor believes that this ratio is competitive within the marketplace for companies at Raptor's stage of development and appropriate to fulfill Raptor's stated policies.

Elements of Compensation

Base Salary

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Raptor's Compensation Committee has established base salary compensation for its executive officers taking into account: (1) the officer's equity interest in Raptor; (2) the status of Raptor as an early-stage development company; (3) competitive levels of compensation; and (4) Raptor's ability to pay at this stage of its

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funding cycle. In recommending base salaries for Fiscal Year 2008, Raptor's Compensation Committee considered individual performance and salaries paid to executive officers of other biotechnology companies similar in size, stage of development and other characteristics. In making its recommendations, Raptor's Compensation Committee takes into account recommendations submitted by persons serving in a supervisory position over a particular executive officer. In July 2008, Raptor's Compensation Committee hired an outside consultant to review Raptor's executive compensation and compensation for positions in which it is currently recruiting in order to offer a competitive compensation package to new employees and in an effort to compensate Raptor's executives closer to competitive levels. The outside consultant utilized a well-established industry salary survey and benchmarked Raptor's executive salaries with salaries of companies of similar size and located in the San Francisco Bay Area. Due to the significant differences between market rates and Raptor's Fiscal Year 2007 executive base salaries, Raptor's Compensation Committee recommended a pro rata three-step increase (over three years) for Dr. Starr, Raptor's Chief Executive Officer, and a pro rata two-step increase (over two years) for Raptor's other three executive officers. Based on the input from the outside consultant, the recommendation by Raptor's Compensation Committee and approval of Raptor's full board of directors, effective July 10, 2008, Raptor's executives' base salaries* were as follows:

| | | |
|-------------------------------|---|---------------|
| Christopher M. Starr, Ph.D. | Chief Executive Officer, President and Director | \$ 213,610 |
| Todd C. Zankel, Ph.D. | Chief Scientific Officer | \$ 192,300 |
| Kim R. Tsuchimoto, C.P.A. | Chief Financial Officer, Secretary and Treasurer | \$ 208,401 |
| Ted Daley | President, Raptor Therapeutics Inc. (f/k/a Benu Pharmaceuticals Inc.) | \$ 208,401** |
| Patrice P. Rioux, M.D., Ph.D. | Chief Medical Officer, Raptor Therapeutics Inc. | \$ 280,000*** |

* Prior to July 10, 2008, executive salaries were as follows: Dr. Starr \$150,000; Dr. Zankel \$150,000; Ms. Tsuchimoto \$176,000; and Mr. Daley \$150,000.

** Mr. Daley commenced employment on September 10, 2007.

*** Dr. Rioux commenced employment on April 15, 2009.

Bonus and Other Non-Equity Incentive Plan Compensation

Given Raptor's stage of development and its desire to conserve cash, Raptor limited awarding cash bonuses to its executive officers and did not provide for other non-equity incentive plan compensation. Pursuant to his employment agreement, Mr. Daley received the following: a bonus of \$30,000 in January 2008 related to the execution of a manufacturing contract to formulate 4-MP; in March 2008, a bonus of \$10,000 for reaching his six-month employment anniversary; and in September 2008 a bonus of \$10,000 for reaching his one-year anniversary.

In March 2008, pursuant to an asset purchase agreement with Convivia, Inc., which corporation has been dissolved and Mr. Daley was the sole stockholder, Mr. Daley received a bonus of 100,000 shares of Raptor's common stock related to the execution of a supply agreement for the active pharmaceutical ingredient for 4-MP and in October 2008, Mr. Daley received a bonus of 100,000 shares of Raptor's common stock and \$30,000 related to the achievement of a clinical milestone. All of Raptor's executive officers are eligible for annual and discretionary cash and stock option bonuses pursuant to their employment agreements.

Pursuant to Dr. Rioux's offer letter executed in April 2009, Dr. Rioux is eligible for bonus stock options exercisable for up to 50,000 shares of Raptor's common stock if the following milestones are achieved during his employment: Raptor's achievement of a successful pilot clinical trial of DR Cysteamine in cystinosis; first patient dosed in a pivotal clinical trial of DR Cysteamine in cystinosis; Raptor's filing of a New Drug Application for DR Cysteamine in cystinosis; and marketing approval of DR Cysteamine in cystinosis. To-date none of these milestones have been achieved and no bonuses have been granted to Dr. Rioux.

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Raptor believes that equity grants provide Raptor's executive officers with a strong link to Raptor's long-term performance, create an ownership culture, and closely align the interests of Raptor's executive officers with the interests of Raptor's Stockholders. Because of the direct relationship between the value of an option and the market price of Raptor's common stock, Raptor have always believed that granting stock options is the best method of motivating the executive officers to manage Raptor in a manner that is consistent with the interests of Raptor and Raptor's stockholders. In addition, the vesting feature of Raptor's equity grants should aid officer retention because this feature provides an incentive to Raptor's executive officers to remain in Raptor's employ during the vesting period. In determining the size of equity grants to Raptor's executive officers, Raptor's Compensation Committee considers Raptor's Company-level performance, the applicable executive officer's performance, the period during which an executive officer has been in a key position with Raptor, the amount of equity previously awarded to or owned by the applicable executive officer, the vesting of such awards, the number of shares available under Raptor's 2006 Equity Incentive Plan and the recommendations of management and any other consultants or advisors with whom Raptor's Compensation Committee may choose to consult.

In Fiscal Year 2008, stock options were granted under the 2006 Equity Incentive Plan as an incentive to aid in the retention of the executive officers and to align their interests with those of Raptor's stockholders.

Raptor currently does not have any formal plan requiring it to grant, or not to grant, equity compensation on specified dates. With respect to newly hired executives, Raptor's practice is typically to consider stock option grants upon initial drafting of the executive's employment agreement followed by a Stock Option Committee unanimous written consent approving such stock option grant. The stock option exercise price is based on the closing price the day preceding the later of the Stock Option Committee approval or the executive's first day of employment. Raptor intend to ensure that Raptor does not award equity grants in connection with the release, or the withholding, of material non-public information, and that the grant exercise price of all equity awards is equal to the fair market value of the equity on the date of grant.

In September 2007, pursuant to his employment agreement, Raptor issued to Mr. Daley initial employment stock options to purchase 150,000 shares of Raptor's common stock at an exercise price of \$0.52 per share which vests 6/48^{ths} on the six-month anniversary of the grant date and 1/48th per month thereafter and expire ten years from the grant date. In August 2008, Raptor's Compensation Committee recommended, and the full board of directors approved, a stock option grant to Mr. Daley for the purchase of 100,000 shares of Raptor's common stock at an exercise price of \$0.44 per share, which vests 6/48^{ths} upon the six-month anniversary of the grant date and 1/48th per month thereafter and expires ten years from the grant date. Mr. Daley's 2008 stock option was granted in order to increase his initial employment stock option grant to be equal to the stock option grants of Raptor's other executive officers. In July 2008, Raptor granted stock options to Dr. Franklin to purchase 150,000 shares of Raptor's common stock at an exercise price of \$0.52 per share, which vests 6/48^{ths} upon the six-month anniversary of the grant date and 1/48th per month thereafter and expires ten years from the grant date. No other stock options were granted to Raptor's executive officers or Raptor's board of directors during Fiscal Year 2008. The options that were granted to Raptor's officers are set forth in the Grants of Plan-Based Awards table below. All options granted to officers are intended to be qualified stock options as defined under Section 422 of the Internal Revenue Code of 1986, as amended, to the extent possible. All options to members of Raptor's board of directors were non-qualified stock options pursuant to Raptor's 2006 Equity Incentive Plan. In Fiscal Year 2009, pursuant to Dr. Rioux offer letter executed in April 2009, Raptor's Stock Option Committee approved, a stock option grant to Dr. Rioux for the purchase of 150,000 shares of Raptor's common stock at an exercise price of \$0.20 per share, which vests 6/48^{ths} upon the six-month anniversary of the grant date and 1/48th per month thereafter and expires ten years from the grant date.

Perquisites

Raptor's executives do not receive any perquisites and are not entitled to benefits that are not otherwise available to all of Raptor's employees. In this regard it should be noted that Raptor does not provide pension arrangements, post-retirement health coverage, or similar benefits for Raptor's executives or employees.

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Defined Contribution Plan

Raptor maintains a qualified retirement plan pursuant to Internal Revenue Code Section 401(k) covering substantially all employees subject to certain minimum age and service requirements. Raptor's 401(k) plan allows employees to make voluntary contributions. The assets of the 401(k) plan are held in trust for participants and are distributed upon the retirement, disability, death or other termination of employment of the participant.

Employees who participate in Raptor's 401(k) may contribute to their 401(k) account up to the maximum amount that varies annually in accordance with the Internal Revenue Code. Raptor also makes available to 401(k) plan participants the ability to direct the investment of their 401(k) accounts in a well-balanced spectrum of various investment funds.

Raptor provides for a 401(k) matching, at its discretion, in the amount of 100% of the first 3% of employee deferral and 50% of the next 2% of employee deferral, in compliance with the Internal Revenue Service's Safe Harbor rules.

Employment Agreements

Drs. Starr and Zankel and Ms. Tsuchimoto entered into employment agreements with Raptor's wholly-owned subsidiary, Raptor Pharmaceutical Inc. in May 2006. Each employment agreement has an initial term of three years commencing on May 1, 2006 in the case of Dr. Starr and Ms. Tsuchimoto and May 15, 2006 in the case of Dr. Zankel, and will automatically renew for additional one year periods unless either party under such agreement notifies the other that the term will not be extended. Under their agreements, each officer is entitled to an annual salary (\$150,000 each for Drs. Starr and Zankel and \$160,000 for Ms. Tsuchimoto), the amount of which may be increased from time to time in the discretion of Raptor's board of directors, and stock options to purchase 250,000 shares of Raptor's common stock, which vest over three years with a six month cliff vest. Officers' annual salaries are subject to annual review and potential increase by Raptor's board of directors. In addition, they are each eligible to receive annual bonuses in cash or stock options as awarded by Raptor's board of directors, at its discretion. On September 7, 2007, Raptor entered into an employment agreement with Ted Daley for a term of 18 months and will automatically renew for additional one year periods unless either party under such agreement notifies the other that the term will not be extended. Under Mr. Daley's agreement, Mr. Daley is entitled to an annual salary of \$150,000 and stock options to purchase 150,000 shares of Raptor's common stock, which vest over four years with a six month cliff vest. Mr. Daley's annual salary is subject to annual review and potential increase by Raptor's board of directors. In addition, Mr. Daley is eligible to receive certain bonuses in cash and stock options based on triggering events related to the successful development of Raptor's ConviviaTM product development program. Each of Drs. Starr's and Zankel's, Ms. Tsuchimoto's and Mr. Daley's respective employment agreements were amended effective as of January 1, 2009 for purposes of bringing such employment agreements into compliance with the applicable provisions of Section 409A of the Code and the Treasury Regulations and interpretive guidance issued thereunder.

If any officer's employment is constructively terminated or terminated by Raptor without cause, including in the event of a change of control, then the officer will be entitled to continue to receive his or her base salary, bonuses and other benefits for a period of 12 months from the date of termination. A description of the terms of these agreements, including post-employment payments and triggers, is included in the section titled, "Executive Payments Upon Termination" as of August 31, 2008.

For further detail please refer to the officers' respective employment agreements filed as exhibits 10.5, 10.6 and 10.7 to Raptor's Current Report on Form 8-K, which was filed by Raptor with the SEC on May 26, 2006; exhibit 10.1 to Raptor's Form 10-QSB, which was filed by Raptor with the SEC on January 14, 2008; and exhibits 10.1, 10.2, 10.3 and 10.4 to Raptor's Current Report on Form 8-K, which was filed by Raptor with the SEC on January 5, 2009.

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Equity Incentive Plan

In May 2006, Raptor's stockholders approved the 2006 Equity Compensation Plan (the Plan). The Plan life is ten years and allows for the granting of options to Raptor's employees, directors and consultants. Typical option grants are for ten years with exercise prices at or above market price based on the last closing price as of the date prior to the grant date as quoted on the OTC Bulletin Board and vest over four years as follows: 6/48ths on the six-month anniversary of the date of grant and 1/48ths per month thereafter.

Accounting and Tax Considerations

Raptor selects and implements its various elements of compensation for their ability to help Raptor achieve its performance and retention goals and not based solely on any unique or preferential financial accounting treatment. In this regard, Section 162(m) of the Internal Revenue Code generally sets a limit of \$1.0 million on the amount of annual compensation (other than certain enumerated categories of performance-based compensation) that Raptor may deduct for federal income tax purposes with respect to the executive officers (other than Raptor's chief financial officer) listed in the Summary Compensation Table below. Compensation realized upon the exercise of stock options is considered performance based if, among other requirements, the plan pursuant to which the options are granted has been approved by Raptor's stockholders and has a limit on the total number of shares that may be covered by options issued to any plan participant in any specified period.

Stock options granted under Raptor's 2006 Equity Incentive Plan are considered performance based. Therefore, any compensation realized upon the exercise of stock options granted under the 2006 Equity Incentive Plan will be excluded from the deductibility limits of Section 162(m). While Raptor has not adopted a policy requiring that all compensation be deductible, Raptor considers the consequences of Section 162(m) in designing its compensation practices.

Generally, the exercise of an incentive stock option does not trigger any recognition of income or gain to the holder but may be subject to Alternative Minimum Tax. If the stock is held until at least one year after the date of exercise (or two years from the date the option is granted, whichever is later), all of the gain on the sale of the stock, when recognized for income tax purposes will be capital gain, rather than ordinary income to the recipient. Consequently, Raptor does not receive a tax deduction. For stock options that do not qualify as incentive stock options, Raptor is entitled to a tax deduction in the year in which the stock options are exercised equal to the spread between the exercise price and the fair market value of the stock on the exercise date. The holders of the non-qualified stock options are generally taxed on this same amount in the year of exercise. If the holder of an incentive stock option exercises their options and sells the stock received from such exercise before the one year holding period or before two years from grant date, this is known as a disqualifying disposition, which will be subject to ordinary income tax for the option holder and will be tax deductible to Raptor.

Stock Ownership Guidelines

Although Raptor has not adopted any stock ownership guidelines, Raptor believes that its compensation of executive officers, which includes the use of stock options, results in an alignment of interest between these individuals and Raptor's Stockholders.

Benchmarking and Consultants

Raptor's Compensation Committee reviews the history of all the elements of each executive officer's total compensation over Raptor's short history and compares the compensation of the executive officers with that of the executive officers in an appropriate market comparison group comprised of other biotechnology companies similar in size, stage of development and other characteristics.

Table of Contents**Named Executive Officer Compensation****Summary Compensation Table(4)**

| Name and Principal Position | Fiscal Year (ending August 31) | Salary \$(1) | Bonus \$ | Stock Awards \$ | Option Awards \$(2) | Non-equity Incentive Plan Compensation \$ | Change in Pension Value and NQDC Earnings \$ | All Other Compensation \$(3) | Total \$ |
|---|--------------------------------|--------------|----------|-----------------|---------------------|---|--|------------------------------|----------|
| Christopher M. Starr, Ph.D. Chief Executive Officer and Director | 2008 | 156,116 | | | 42,864 | | | 7,188 | 206,168 |
| | | 150,000 | | | 40,612 | | | 2,789 | 193,401 |
| | 2007 | 51,346 | | | | | | 39 | 51,385 |
| | 2006 | | | | | | | | |
| Todd C. Zankel, Ph.D. Chief Scientific Officer | 2008 | 154,067 | | | 42,864 | | | 7,106 | 204,037 |
| | | 150,000 | | | 40,612 | | | 2,789 | 193,401 |
| | 2007 | 45,577 | | | | | | 39 | 45,616 |
| | 2006 | | | | | | | | |
| Kim R. Tsuchimoto, C.P.A. Chief Financial Officer, Secretary, And Treasurer | 2008 | 179,115 | | | 47,881 | | | 8,171 | 235,167 |
| | | 163,333 | 25,000 | | 38,739 | | | 4,098 | 231,170 |
| | 2007 | 66,204 | | | | | | 252 | 66,456 |
| | 2006 | | | | | | | | |
| Ted Daley, President, Raptor Therapeutics Inc. (f /k/a Benu Pharmaceuticals Inc.) | 2008 | 146,962 | 40,000 | 56,000 | 14,594 | | | 7,866 | 265,422 |

- (1) Dr. Starr and Ms. Tsuchimoto's full time employment commenced on May 1, 2006 at an annual base salary of \$150,000 and \$160,000, respectively. Ms. Tsuchimoto's annual base salary increased to \$176,000 in June 2007 and to \$208,401 in July 2008. Dr. Starr's salary increased to \$213,610 in July 2008. Dr. Zankel's full time employment commenced on May 15, 2006 at an annual base salary of \$150,000 which increased to \$192,300 in July 2008. Mr. Daley's full-time employment commenced on September 10, 2007 at an annual base salary of \$150,000 which increased to \$208,401 in July 2008.
- (2) This column represents the dollar amount recognized for financial statement reporting purposes with respect to Fiscal Years 2008 and 2007 for the fair value of the stock options granted to each of the named executive officers since inception, in accordance with SFAS 123R. The amounts shown exclude the impact of estimated forfeitures related to service-based vesting conditions. For additional information on the valuation assumptions with respect to the Fiscal Years 2008 and 2007 grants, please refer to the notes in Raptor's financial statements filed with the SEC on October 30, 2008 in Raptor's annual report on Form 10-K for the fiscal year ended August 31, 2008. These amounts reflect Raptor's accounting expense for these awards, and do not correspond to the actual value that will be recognized by the named executive officers. In May 2006 Drs. Starr and Zankel and Ms. Tsuchimoto were granted stock options to purchase 250,000 shares of Raptor's common stock at an exercise price of \$0.66 per share for Drs. Starr and Zankel and \$0.60 per share for Ms. Tsuchimoto. The options vest 6/36^{ths} on the six month anniversary of the grant date and 1/36th per month thereafter and expire 10 years from grant date. No dollar amount is reflected in this column for Raptor's fiscal year ended August 31, 2006 due to the fact that SFAS 123R was not adopted by Raptor until Raptor's Fiscal Year 2007.
- (3) All Other Compensation includes 401(k) match funded by Raptor and life insurance premiums paid by Raptor where the executive is the beneficiary.
- (4) Dr. Patrice P. Rioux's employment commenced on April 15, 2009 at an annual base salary of \$280,000.

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Stock Option Grants and Exercises During the Fiscal Year Ended August 31, 2008

The following table sets forth information concerning stock option grants made during Fiscal Year 2008, to Raptor's executive officers named in the Summary Compensation Table above. The fair value information in the far right column is for illustration purposes only and is not intended to predict the future price of Raptor's common stock. The actual future value of the stock options will depend on the market value of Raptor's common stock.

Grants of Plan-Based Awards Table

| Name | Grant Date | Estimated Future Payouts Under Non-Equity Incentive Plan Awards | | | Estimated Future Payouts Under Equity Incentive Plan Awards | | | All Other Stock Awards: Number of Shares or Units (#) | All Other Options Awards: Number of Securities Underlying Options (#) (1) | Exercise or Base Price of Option (\$/Sh) (2) | Grant Date Fair Value of Option Awards (\$) (3) |
|-----------|--------------------|---|-------------|--------------|---|-------------|--------------|---|---|--|---|
| | | Threshold (\$) | Target (\$) | Maximum (\$) | Threshold (\$) | Target (\$) | Maximum (\$) | | | | |
| Ted Daley | 9/10/07 8/12/08 | | | | | | | | 150,000 100,000 | 0.52 0.44 | 14,138 456 |

- (1) These stock options vest 6/48^{ths} on the six-month anniversary of the grant date and 1/48th per month thereafter. The options expire 10 years from grant date.
- (2) This column shows the exercise price for the stock options granted, which was the closing price of Raptor's common stock one day preceding the stock option grant date.
- (3) This column represents the dollar amount recognized for financial statement reporting purposes with respect to Fiscal Year 2008 for the fair value of the stock options granted to each of the named executive officers in Fiscal Year 2008 in accordance with SFAS 123R. The amounts shown exclude the impact of estimated forfeitures related to service-based vesting conditions. These amounts reflect Raptor's accounting expense for these awards, and do not correspond to the actual value that will be recognized by the named executive officers. The following table sets forth certain information with respect to outstanding stock option awards of the named executive officers for Fiscal Year 2008.

Outstanding Equity Awards at August 31, 2008

| Name | Number of Securities Underlying Unexercised Options Exercisable (#) | Option Awards | | Option Exercise Price (\$) | Option Expiration Date(2) |
|-----------------------------|---|--|---|----------------------------|---------------------------|
| | | Number of Securities Underlying Unexercised Options (#)(1) | Equity Incentive Plan Awards: Number of Securities Underlying Unexercised Options (#) | | |
| Christopher M. Starr, Ph.D. | 187,500(1) | 62,500 | | 0.66 | 5/26/2016 |
| Todd C. Zankel, Ph.D. | 187,500(1) | 62,500 | | 0.66 | 5/26/2016 |
| Kim R. Tsuchimoto, C.P.A. | 185,000(1) | 62,500 | | 0.60 | 5/26/2016 |
| | 14,583(2) | 35,417 | | 0.60 | 6/14/2017 |
| | 8,799(2) | 21,251 | | 0.60 | 6/14/2017 |
| Ted Daley | 34,374(2) | 115,626 | | 0.52 | 9/10/2017 |
| | 0(2) | 100,000 | | 0.44 | 8/12/2018 |

- (1) Stock options vest $6/36^{\text{th}}$ on the six month anniversary of grant date and $1/36^{\text{th}}$ per month thereafter.
- (2) Stock options vest $6/48^{\text{th}}$ on the six month anniversary of grant date and $1/48^{\text{th}}$ per month thereafter.

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Option Exercises

There were no option exercises by Raptor's executive officers during Raptor's Fiscal Year 2008.

Post-Employment Compensation

Employment Agreements

Drs. Starr and Zankel and Ms. Tsuchimoto entered into employment agreements with Raptor's wholly-owned subsidiary, Raptor Pharmaceutical Inc. in May 2006. Each employment agreement has an initial term of three years commencing on May 1, 2006 in the case of Dr. Starr and Ms. Tsuchimoto and May 15, 2006 in the case of Dr. Zankel, and will automatically renew for additional one year periods unless either party under such agreement notifies the other that the term will not be extended. Under their agreements, each officer is entitled to an annual salary (\$150,000 each for Drs. Starr and Zankel and \$160,000 for Ms. Tsuchimoto), the amount of which may be increased from time to time in the discretion of Raptor's board of directors, and stock options to purchase 250,000 shares of Raptor's common stock, which vest over three years with a six month cliff vest. Officers' annual salaries are subject to annual review and potential increase by Raptor's board of directors. In addition, they are each eligible to receive annual bonuses in cash or stock options as awarded by Raptor's board of directors, at its discretion. On September 7, 2007, Raptor entered into an employment agreement with Ted Daley for a term of 18 months and will automatically renew for additional one year periods unless either party under such agreement notifies the other that the term will not be extended. Under Mr. Daley's agreement, Mr. Daley is entitled to an annual salary of \$150,000 and stock options to purchase 150,000 shares of Raptor's common stock, which vest over four years with a six month cliff vest. Mr. Daley's annual salary is subject to annual review and potential increase by Raptor's board of directors. In addition, Mr. Daley is eligible to receive certain bonuses in cash and stock options based on triggering events related to the successful development of Raptor's Convivia product development program. In April 2009, Raptor executed an employment offer to Dr. Patrice Rioux with an annual base salary of \$280,000.

Except for Dr. Rioux, if any officer's employment is constructively terminated or terminated by Raptor without cause, including in the event of a change of control, then the officer will be entitled to continue to receive his or her base salary, bonuses and other benefits for a period of 12 months from the date of termination. In the case of a change of control, such officer's outstanding and unvested stock options shall become fully vested. In the case of Dr. Rioux, upon a change of control, Dr. Rioux is entitled to receive 6 months of base salary and all of his outstanding and unvested stock options shall become fully vested.

Except for Dr. Rioux, if any officer's employment is terminated for cause, by death or due to a voluntary termination, Raptor shall pay to such officer, or in the case of termination due to death, his or her estate, the compensation and benefits payable through the date of termination.

Except for Dr. Rioux, if any officer's employment is terminated due to disability, Raptor shall pay to such officer the compensation and benefits payable through the date of termination and shall continue to pay such officer salary and a prorated bonus for three months following such termination, at the end of which time such officer shall receive short-term and eventually long-term disability benefits pursuant to Raptor's current disability insurance plans.

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The following table quantifies the amounts that Raptor would owe each of its executive officers upon each of the termination triggers discussed above:

Executive Payments Upon Termination (As of August 31, 2008)*

Christopher M. Starr, Ph.D.

Chief Executive Officer

| Executive Benefits and Payments Upon Termination | Disability | Death | Termination Without Cause or Constructive Termination | CIC Whether or Not Services are Terminated(1) |
|--|------------------|-----------|---|---|
| Severance Payments | | | | |
| Base Salary | \$ 53,403(3) | \$ | \$ 213,610(2) | \$ 213,610(2) |
| Short-Term Incentive | (4) | (4) | (5) | (5) |
| Value of Unvested Equity Awards and Accelerated Vesting | | | | |
| Stock Options | | | | 27,883(6) |
| Total | \$ 53,403 | \$ | \$ 213,610 | \$ 241,493 |

(1) CIC means change in control, as defined within the officer's employment agreement.

(2) 12 months base salary.

(3) 3 months base salary.

(4) Pro rata bonus.

(5) Full cash bonus otherwise payable.

(6) Vesting of all stock options granted in accordance with SFAS 123R. The amounts shown exclude the impact of estimated forfeitures related to service-based vesting conditions. These amounts reflect Raptor's accounting expense for these awards, and do not correspond to the actual value that will be recognized by the named executive officers.

Todd C. Zankel, Ph.D.

Chief Scientific Officer

| Executive Benefits and Payments Upon Termination | Disability | Death | Termination Without Cause or Constructive Termination | CIC Whether or Not Services are Terminated(1) |
|--|------------------|-----------|---|---|
| Severance Payments | | | | |
| Base Salary | \$ 48,075(3) | \$ | \$ 192,300(2) | \$ 192,300(2) |
| Short-Term Incentive | (4) | (4) | (5) | (5) |
| Value of Unvested Equity Awards and Accelerated Vesting | | | | |
| Stock Options | | | | 27,883(6) |
| Total | \$ 48,075 | \$ | \$ 192,300 | \$ 220,183 |

(1) CIC means change in control, as defined within the officer's employment agreement.

(2) 12 months base salary.

(3) 3 months base salary.

(4) Pro rata bonus.

(5) Full cash bonus otherwise payable.

(6) Vesting of all stock options granted in accordance with SFAS 123R. The amounts shown exclude the impact of estimated forfeitures related to service-based vesting conditions. These amounts reflect Raptor's accounting expense for these awards, and do not correspond to

the actual value that will be recognized by the named executive officers.

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Kim R. Tsuchimoto, C.P.A.

Chief Financial Officer, Secretary and Treasurer

| Executive Benefits and Payments Upon Termination | Disability | Death | Termination Without Cause or Constructive Termination | CIC Whether or Not Services are Terminated(1) |
|--|-------------------|--------------|--|--|
| Severance Payments | | | | |
| Base Salary | \$ 52,100(3) | | \$ 208,401(2) | \$ 208,401(2) |
| Short-Term Incentive | (4) | (4) | (5) | (5) |
| Value of Unvested Equity Awards and Accelerated Vesting | | | | |
| Stock Options | | | | 37,529(6) |
| Total | \$ 52,100 | \$ | \$ 208,401 | \$ 245,930 |

(1) CIC means change in control, as defined within the officer's employment agreement.

(2) 12 months base salary.

(3) 3 months base salary.

(4) Pro rata bonus.

(5) Full cash bonus otherwise payable.

(6) Vesting of all stock options granted in accordance with SFAS 123R. The amounts shown exclude the impact of estimated forfeitures related to service-based vesting conditions. These amounts reflect Raptor's accounting expense for these awards, and do not correspond to the actual value that will be recognized by the named executive officers.

Ted Daley,

President, Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.)

| Executive Benefits and Payments Upon Termination | Disability | Death | Termination Without Cause or Constructive Termination | CIC Whether or Not Services are Terminated(1) |
|--|-------------------|--------------|--|--|
| Severance Payments | | | | |
| Base Salary | \$ 52,100(3) | \$ | \$ 208,401(2) | \$ 208,401(2) |
| Short-Term Incentive | (4) | (4) | (5) | (5) |
| Value of Unvested Equity Awards and Accelerated Vesting | | | | |
| Stock Options | | | | 77,831(6) |
| Total | \$ 52,100 | \$ | \$ 208,401 | \$ 286,232 |

(1) CIC means change in control, as defined within the officer's employment agreement.

(2) 12 months base salary.

(3) 3 months base salary.

(4) Pro rata bonus.

(5) Full cash bonus otherwise payable.

(6) Vesting of all stock options granted in accordance with SFAS 123R. The amounts shown exclude the impact of estimated forfeitures related to service-based vesting conditions. These amounts reflect Raptor's accounting expense for these awards, and do not correspond to the actual value that will be recognized by the named executive officers.

* In the case of Dr. Rioux, upon a change of control, Dr. Rioux will be entitled to \$140,000 of base salary.

Table of Contents**Compensation Committee Interlocks and Insider Participation**

All compensation decisions made during Fiscal Year 2008 were made exclusively by the independent directors serving on Raptor's Compensation Committee, with respect to Raptor's Chief Executive Officer, executive officers and other officers. The members of Raptor's Compensation Committee during Fiscal Year 2008 were Mr. Anderson and Mr. Sager, none of whom were officers or employees of Raptor or any of Raptor's subsidiaries during Fiscal Year 2008 or in any prior year. None of Raptor's executive officers served as a member of the board or compensation committee of any other company that has an executive officer serving as a member of Raptor's board of directors or Compensation Committee.

Securities Authorized for Issuance Under Equity Compensation Plans

The following table provides information as of August 31, 2008 with respect to shares of Raptor common stock that may be issued under its existing equity compensation plans, including the 2006 Equity Incentive Plan. Stockholders approved Raptor's 2006 Equity Incentive Plan in May 2006, and Raptor's board of directors approved Amendment No. 1 in February 2007 and Amendment No. 2 in December 2008.

| Plan category | Equity Compensation Plan Information | | |
|---|--|--|--|
| | Number of securities to be issued upon exercise of outstanding options, warrants and rights as of August 31, 2008 (a) | Weighted-average exercise price of outstanding options, warrants and rights as of August 31, 2008 (b) | Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) as of August 31, 2008 (c) |
| | | \$ | |
| Equity compensation plans approved by security holders | 3,893,227 | 0.59 | 2,092,273 |
| Equity compensation plans not previously approved by security holders | 0 | 0 | 0 |
| Total | 3,893,227 | \$ 0.59 | 2,092,273 |

In May 2006 Raptor's stockholders approved the 2006 Equity Compensation Plan (the "Plan"). The Plan life is ten years and allows for the granting of options to Raptor's employees, directors and consultants. Typical option grants are for ten years at or above market price based on the last closing price as of the date immediately preceding the grant date as quoted on the OTC Bulletin Board and vests over four years as follows: 6/48ths on the six month anniversary of the date of grant and 1/48th per month thereafter.

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CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

Review, Approval or Ratification of Transactions with Related Persons

As provided in the charter of Raptor's Audit Committee, it is Raptor's policy that it will not enter into any transactions required to be disclosed under Item 404 of the SEC's Regulation S-K unless the Audit Committee or another independent body of Raptor's board of directors first reviews and approves the transactions. The Raptor Audit Committee is required to review on an on-going basis, and pre-approve all related party transactions before they are entered into including those transaction that are required to be disclosed under Item 404 of Regulation S-K promulgated by the SEC. If such transaction relates to compensation, it must be approved by the Raptor Compensation Committee as well. All related party transactions must also be approved by the disinterested members of the Raptor board of directors. It is the responsibility of Raptor's employees and directors to disclose any significant financial interest in a transaction between Raptor and a third party, including an indirect interest. All related party transactions shall be disclosed in Raptor's filings with the SEC as required under SEC rules. The Board has determined that each of Mr. Anderson and Mr. Sager is independent under the rules of the SEC.

In addition, pursuant to Raptor's Code of Business Conduct and Ethics, all employees, officers and directors of Raptor and its subsidiaries are prohibited from engaging in any relationship or financial interest that is an actual or potential conflict of interest with Raptor without approval. Employees, officers and directors are required to provide written disclosure to the Chief Executive Officer as soon as they have any knowledge of a transaction or proposed transaction with an outside individual, business or other organization that would create a conflict of interest or the appearance of one.

Pursuant to the terms of a share purchase agreement, Raptor issued to each of Drs. Starr and Zankel (its Chief Executive Officer and its Chief Scientific Officer, respectively) 3,000,000 shares of Raptor's common stock and to Erich Sager (one of Raptor's directors) 1,000,000 shares of its common stock. Mr. Sager purchased his shares pursuant to a promissory note when Raptor was privately held in February 2006 in the amount of \$100,000 plus accrued interest at 8% per annum. Mr. Sager repaid \$50,000 of the note on February 8, 2006, another \$50,000 on March 9, 2006 and \$373 of accrued interest on April 11, 2006. Drs. Starr and Zankel and Mr. Sager did not own any shares of Raptor's common stock at the time when such share purchase agreement was first approved and executed.

Pursuant to the terms of an asset purchase agreement, Raptor and its wholly-owned subsidiary, Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) purchased certain assets of Convivia, Inc., which is wholly-owned by Ted Daley, President of Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.). To date, in aggregate Mr. Daley received 400,000 shares of Raptor's common stock and \$80,000 in cash bonuses and may receive additional common stock and cash bonuses based on the successful development of Raptor's Convivia development program. Mr. Daley was hired to develop the Convivia product candidate along with other clinical-stage programs at Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.).

With respect to Raptor's May and June 2008 private placement, Limetree Capital was issued warrants to purchase 1,882,650 shares of Raptor's common stock at an exercise price of \$0.55 per share and cash commissions of \$627,550. With respect to Raptor's August 2009 private placement, Limetree Capital was issued warrants to purchase 556,500 shares of Raptor's common stock at an exercise price of \$0.35 per share and was paid cash commissions of \$59,360. Erich Sager, the Chairman of Raptor's board of directors serves on the board of directors of Limetree Capital.

In the ordinary course of Raptor's business, its officers have loaned money to Raptor by paying travel expenses and equipment and other costs from their personal funds on behalf of Raptor. Raptor has promptly reimbursed the officers.

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REPORT OF THE COMPENSATION COMMITTEE OF THE RAPTOR BOARD OF DIRECTORS

Raptor's Compensation Committee has reviewed and discussed the preceding Compensation Disclosure and Analysis with management and, based on such review and discussions, Raptor's Compensation Committee recommended to Raptor's board of directors that the Compensation Disclosure and Analysis be included in this joint proxy statement/prospectus.

Compensation Committee

Erich Sager, (Chair)

Raymond W. Anderson

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UNAUDITED PRO FORMA CONDENSED COMBINED FINANCIAL STATEMENTS

Except where specifically noted, the following information and all other information contained in this proxy statement/prospectus do not give effect to the proposed reverse stock split described in TorreyPines Proposal No. 2.

The following unaudited pro forma condensed combined financial statements give effect to the proposed business combination of TorreyPines and Raptor. For accounting purposes Raptor is considered to be acquiring TorreyPines in the merger. Accordingly, the purchase price is allocated among the fair values of the assets and liabilities of TorreyPines, while the historical results of Raptor are reflected in the results of the combined company. The transaction will be accounted for under the purchase method of accounting in accordance with Statement of Financial Accounting Standards, or SFAS, No. 141(R), *Business Combinations*. Under the purchase method of accounting, the total estimated purchase price, calculated as described in Note 2 to these unaudited pro forma condensed combined financial statements, is allocated to the tangible and intangible assets acquired and liabilities assumed in connection with the transaction, based on their estimated fair values as of the completion of the transaction.

For purposes of these unaudited pro forma condensed combined financial statements, TorreyPines and Raptor have made a preliminary allocation of the estimated purchase price to the assets acquired and liabilities assumed based on various preliminary estimates of their fair value, as described in Note 2 to these unaudited pro forma condensed combined financial statements. A final determination of these estimated fair values, which cannot be made prior to the completion of the merger, will be based on the actual net assets of TorreyPines that exist as of the date of completion of the merger. The actual amounts recorded as of the completion of the merger may differ materially from the information presented in these unaudited pro forma condensed combined financial statements as a result of:

cash cost of TorreyPines operations between the signing of the merger agreement and the closing of the merger,

the timing of completion of the merger, and

other changes in TorreyPines assets that occur prior to completion of the merger, which could cause material differences in the information presented below.

The unaudited pro forma condensed combined financial statements presented below are based on the historical financial statements of TorreyPines and Raptor, adjusted to give effect to the acquisition of TorreyPines by Raptor for accounting purposes. The pro forma adjustments are described in the accompanying notes presented on the following pages.

The unaudited pro forma condensed combined financial statements were prepared using the purchase method of accounting. For accounting purposes, Raptor is considered to be acquiring TorreyPines in the merger. TorreyPines and Raptor's unaudited pro forma condensed combined balance sheet assumes that the merger took place on May 31, 2009 and combines Raptor's historical balance sheet at May 31, 2009 with TorreyPines' historical balance sheet at June 30, 2009. The historical balance sheet for Raptor was derived from its unaudited consolidated balance sheet included in its Form 10-Q for the quarterly period ended May 31, 2009, included herein. The historical balance sheet for TorreyPines was derived from its unaudited consolidated balance sheet included in its Form 10-Q for the quarterly period ended June 30, 2009, included herein.

TorreyPines and Raptor's unaudited pro forma condensed combined statements of operations assume that the merger took place as of the beginning of the periods presented. The unaudited pro forma condensed combined statement of operations for the year ended August 31, 2008 combines Raptor's historical statement of operations for the year ended August 31, 2008 with TorreyPines' derived historical statement of operations for the year ended September 30, 2008. The unaudited pro forma condensed combined statement of operations for the nine months ended May 31, 2009 combines Raptor's historical statement of operations for the nine months

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ended May 31, 2009 with TorreyPines derived historical statement of operations for the nine months ended June 30, 2009. The historical statements of operations for Raptor were derived from its audited consolidated statement of operations included in its Annual Report on Form 10-K for the year ended August 31, 2008, and its unaudited consolidated statement of operations included in its Form 10-Q for the quarterly period ended May 31, 2009, included herein. The derived historical statements of operations for TorreyPines were derived from its audited consolidated statement of operations included in its Annual Report on Form 10-K for the year ended December 31, 2008, and its unaudited consolidated statement of operations included in its Form 10-Q for the quarterly period ended June 30, 2009, included herein.

The unaudited pro forma condensed combined financial statements have been prepared for illustrative purposes only and are not necessarily indicative of the consolidated financial position or results of operations in future periods or the results that actually would have been realized had TorreyPines and Raptor been a combined company during the specified periods. The pro forma adjustments are based on the preliminary information available at the time of the preparation of this joint proxy statement/prospectus. The unaudited pro forma condensed combined financial statements, including the notes thereto, are qualified in their entirety by reference to, and should be read in conjunction with, the historical consolidated financial statements of Raptor included in its Form 10-Q for the nine months ended May 31, 2009 and its Annual Report on Form 10-K for the year ended August 31, 2008 included herein, and the historical condensed consolidated financial statements of TorreyPines included in its Form 10-Q for the six months ended June 30, 2009, and the historical consolidated financial statements of TorreyPines included in its Annual Report on Form 10-K for the year ended December 31, 2008, also included herein.

Table of Contents**Unaudited Pro Forma Condensed Combined Balance Sheet**

| | May 31, 2009 | | | | |
|--|---|--|--------------------------|---|-----------------------|
| | Raptor Pharmaceuticals Historical May 31, 2009 | TorreyPines Therapeutics Historical June 30, 2009 | Pro Forma Adjustments | Purchase Accounting Adjustments | Pro Forma Combined |
| Assets | | | | | |
| Current assets | | | | | |
| Cash and cash equivalents | \$ 492,963 | \$ 1,175,000 | \$ | \$ | \$ 1,667,963 |
| Other current assets | 163,508 | 243,000 | | | 406,508 |
| Total current assets | 656,471 | 1,418,000 | | | 2,074,471 |
| Intangible assets, net | 2,559,417 | | | 1,321,000 E | 3,880,417 |
| Fixed assets, net | 162,490 | | | | 162,490 |
| Deposits | 100,207 | | | | 100,207 |
| Total assets | \$ 3,478,585 | \$ 1,418,000 | \$ | \$ 1,321,000 | \$ 6,217,585 |
| Liabilities and stockholders equity | | | | | |
| Current Liabilities | | | | | |
| Accounts payable & accrued liabilities | \$ 785,302 | \$ 149,000 | \$ 700,000 A | \$ | \$ 1,634,302 |
| Deferred rent | 3,203 | | | | 3,203 |
| Capital lease liability, current | 3,948 | | | | 3,948 |
| Total current liabilities | 792,453 | 149,000 | 700,000 | | 1,641,453 |
| Capital lease liability, long-term | 7,770 | | | | 7,770 |
| Total liabilities | 800,223 | 149,000 | 700,000 | | 1,649,223 |
| Stockholders equity | | | | | |
| Common stock | 60,430 | 16,000 | | (16,000) B (60,430) C 319,981 D | 319,981 |
| Additional paid-in capital | 22,547,701 | 123,167,000 | | (123,167,000) B 60,430 C (319,981) D 2,240,000 E | 24,528,150 |
| Accumulated deficit | (19,929,769) | (121,914,000) | (700,000) A | 122,264,000 B | (20,279,769) |
| Total stockholders equity | 2,678,362 | 1,269,000 | (700,000) | 1,321,000 | 4,568,362 |
| Total Liabilities & Equity | \$ 3,478,585 | \$ 1,418,000 | \$ | \$ 1,321,000 | \$ 6,217,585 |

Table of Contents**Unaudited Pro Forma Condensed Combined Statement of Operations**

| | Nine Months Ended May 31, 2009 | | | |
|--|---|--|--------------------------|------------------------|
| | Raptor Pharmaceuticals Historical May 31, 2009 | TorreyPines Therapeutics Historical June 30, 2009 | Pro Forma Adjustments | Pro Forma Combined |
| Revenue | | | | |
| License and option fees | \$ | \$ 90,000 | | \$ 90,000 |
| Other revenue | | 1,780,000 | | 1,780,000 |
| Total revenue | | 1,870,000 | | 1,870,000 |
| Operating expenses | | | | |
| Research and development | 5,369,922 | 4,136,000 | | 9,505,922 |
| General and administrative | 1,935,612 | 3,485,000 | | 5,420,612 |
| Loss on impairment of purchased patents | | 3,074,000 | | 3,074,000 |
| Total operating expenses | 7,305,534 | 10,695,000 | | 18,000,534 |
| Loss from operations | (7,305,534) | (8,825,000) | | (16,130,534) |
| Other income (expense) | | | | |
| Interest income | 32,930 | 46,000 | | 78,930 |
| Interest expense | (1,876) | (111,000) | | (112,876) |
| Loss on extinguishment of debt | | (76,000) | | (76,000) |
| Foreign exchange gain | | 145,000 | | 145,000 |
| Impairment of property and equipment | | 5,000 | | 5,000 |
| Gain on asset disposal | | 40,000 | | 40,000 |
| Total other income (expense) | 31,054 | 49,000 | | 80,054 |
| Net loss | \$ (7,274,480) | \$ (8,776,000) | \$ | \$ (16,050,480) |
| Basic and diluted net loss per share | \$ (0.12) | \$ (0.55) | | \$ (0.05) |
| Weighted average shares used in computation of basic and diluted net loss per share | | | | |
| | 60,411,732 | 15,906,280 | | 319,981,160 |

Table of Contents**Unaudited Pro Forma Condensed Combined Statement of Operations**

| | Twelve Months Ended August 31, 2008 | | | |
|---|--|---|--------------------------|-----------------------|
| | Raptor Pharmaceuticals Historical Aug. 31, 2008 | TorreyPines Therapeutics Historical Sept. 30, 2008 | Pro Forma Adjustments | Pro Forma Combined |
| Revenue | | | | |
| License and option fees | \$ | \$ 3,893,000 | | \$ 3,893,000 |
| Research funding | | 3,050,000 | | 3,050,000 |
| Total revenue | | 6,943,000 | | 6,943,000 |
| Operating expenses | | | | |
| Research and development | 5,558,871 | 23,316,000 | | 28,874,871 |
| General and administrative | 2,229,140 | 5,760,000 | | 7,989,140 |
| In-process research and development | 240,625 | | | 240,625 |
| Total operating expenses | 8,028,636 | 29,076,000 | | 37,104,636 |
| Loss from operations | (8,028,636) | (22,133,000) | | (30,161,636) |
| Other income (expense) | | | | |
| Interest income | 77,871 | 787,000 | | 864,871 |
| Interest expense | (103,198) | (492,000) | | (595,198) |
| Equity in income of OXIS International, Inc. | | 84,000 | | 84,000 |
| Impairment of equity investment in OXIS International, Inc. | | (1,881,000) | | (1,881,000) |
| Fair value adjustment to Investment in OXIS International, Inc. | | (559,000) | | (559,000) |
| Loss on sale of Investment in OXIS International, Inc. | | (377,000) | | (377,000) |
| Loss on extinguishment of debt | | (165,000) | | (165,000) |
| Impairment of property and equipment | | (158,000) | | (158,000) |
| Foreign exchange gain | | 1,000 | | 1,000 |
| Total other income (expense) | (25,327) | (2,760,000) | | (2,785,327) |
| Net loss | \$ (8,053,963) | \$ (24,893,000) | \$ | \$ (32,946,963) |
| Basic and diluted net loss per share | \$ (0.19) | \$ (1.58) | | \$ (0.10) |
| Weighted average shares used in computation of basic and diluted net loss per share | 42,439,379 | 15,745,026 | | 319,981,160 |

Table of Contents**NOTES TO UNAUDITED PRO FORMA CONDENSED COMBINED****FINANCIAL INFORMATION****1. Basis of Presentation**

On July 27, 2009, TorreyPines and Raptor entered into an Agreement and Plan of Merger and Reorganization under which a wholly-owned subsidiary of TorreyPines, ECP Acquisition, Inc., will merge with and into Raptor. Raptor will become a wholly-owned subsidiary of TorreyPines and the surviving corporation of the merger. Upon completion of the merger, the combined company will change its name to Raptor Pharmaceutical Corp. Pursuant to the terms of the merger agreement, TorreyPines will issue to Raptor stockholders shares of TorreyPines common stock and will assume all of the stock options and stock warrants of Raptor outstanding as of the merger closing date, such that Raptor stockholders will hold 95% of the outstanding shares of common stock of the combined company on a pro forma basis and TorreyPines stockholders will hold 5% of the outstanding shares of common stock of the combined company on a pro forma basis, in each case without taking into account any of the other shares of TorreyPines common stock that may be issuable pursuant to outstanding options or warrants to acquire TorreyPines common stock outstanding as of the signing of the merger agreement or any other shares of Raptor common stock that may be issuable pursuant to outstanding options or warrants, other than the 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options included in the calculation of the exchange ratio. The merger is intended to qualify as a tax-free reorganization under the provisions of Section 368(a) of the Internal Revenue Code. The merger is subject to customary closing conditions, including approval by TorreyPines stockholders.

Because Raptor stockholders will own approximately 95% of the voting stock of the combined company after the transaction, Raptor is deemed to be the acquiring company for accounting purposes and the transaction will be accounted for as a reverse acquisition under the purchase method of accounting for business combinations in accordance with accounting principles generally accepted in the United States. Accordingly, the assets and liabilities of TorreyPines will be recorded as of the merger closing date at their estimated fair values.

2. Purchase Price

The preliminary estimated total purchase price of the proposed merger is as follows (in thousands):

| | |
|--|-----------------|
| Fair value of TorreyPines common stock | \$ 2,240 |
| Estimated fair value of TorreyPines stock options and stock warrants assumed | 0 |
| Total preliminary estimated purchase price | \$ 2,240 |

On July 27, 2009, TorreyPines had 15,999,058 shares of common stock outstanding. The fair value of TorreyPines common stock used in determining the purchase price was \$0.14 per share based on the closing price of TorreyPines common stock on August 13, 2009. The fair value of TorreyPines stock options and stock warrants assumed by Raptor was determined using the Black-Scholes option pricing model with the following assumptions: stock price of \$0.14, which is the value ascribed to the TorreyPines common stock in determining the purchase price; volatility of 97%; dividend rate of 0%; risk-free interest rate of 2.71%; and a weighted average expected option life of 5.57 years. The estimated purchase price is preliminary because the proposed merger has not yet been completed. The actual purchase price may change based on the actual price per share of TorreyPines common stock on the merger closing date, the actual number of shares of TorreyPines common stock and the number of TorreyPines stock options and stock warrants outstanding on the merger closing date.

Under the purchase method of accounting, the total purchase price is allocated to the acquired tangible and intangible assets and assumed liabilities of TorreyPines based on their estimated fair values as of the merger closing date. The excess of the purchase price over the fair value of assets acquired and liabilities assumed, if any, is allocated to goodwill. The excess of the fair value of assets acquired and liabilities assumed over the

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purchase price, if any, is considered negative goodwill and is allocated as a pro rata reduction of the amounts that otherwise would have been assigned to certain acquired assets.

A preliminary allocation of the total preliminary estimated purchase price, as shown above, to the acquired tangible and intangible assets and assumed liabilities of TorreyPines based on the estimated fair values as of June 30, 2009 are as follows (in thousands):

| | Fair Value of Assets Acquired and Liabilities Assumed | Allocation to Intangible Assets | Preliminary Allocation of Purchase Price |
|-------------------------------------|--|------------------------------------|--|
| Cash and cash equivalents | \$ 1,175 | \$ | \$ 1,175 |
| Other assets | 243 | | 243 |
| In-process research and development | | 1,321 | 1,321 |
| Existing assumed liabilities | (149) | | (149) |
| Assumed merger related obligations | (350) | | (350) |
| Total | \$ 919 | \$ 1,321 | \$ 2,240 |

The allocation of the estimated purchase price is preliminary because the proposed merger has not yet been completed. The purchase price allocation will remain preliminary until Raptor completes its valuation of intangible assets acquired and determines the fair values of other assets acquired and liabilities assumed. The final determination of the purchase price allocation is anticipated to be completed as soon as practicable after completion of the merger and will be based on the fair values of the assets acquired and liabilities assumed as of the merger closing date. The final amounts allocated to assets acquired and liabilities assumed could differ significantly from the amounts presented in the unaudited pro forma condensed combined financial statements.

3. Pro Forma and Purchase Accounting Adjustments

The unaudited pro forma condensed combined financial statements include pro forma and purchase accounting adjustments to give effect to certain significant capital transactions of Raptor occurring as a direct result of the proposed merger, and the acquisition of TorreyPines by Raptor for accounting purposes.

The unaudited pro forma condensed combined financial statements do not include any adjustments for income taxes because the combined company is anticipated to incur taxable losses for the foreseeable future.

The pro forma and purchase accounting adjustments are as follows:

(A) To reflect the estimated costs to be incurred by TorreyPines to consummate the merger totaling \$350,000, and the estimated costs to be incurred by Raptor to consummate the merger totaling \$350,000. Merger costs include fees payable for investment banking services, legal, accounting, printing and other consulting services.

(B) To eliminate TorreyPines historical stockholders' equity accounts.

(C) To reflect the reclassification of Raptor historical common stock as additional paid-in capital prior to setting up the common stock account to reflect the combined company.

(D) To set up the common stock account to reflect the combined company. This includes 15,999,058 shares of existing TorreyPines common stock at par value of \$0.001 plus the conversion of all outstanding shares of Raptor common stock into 303,982,102 shares of TorreyPines common stock at par value of \$0.001, totaling 319,981,160 shares of TorreyPines' common stock.

(E) To reflect the estimated preliminary purchase price based on the estimated fair value of TorreyPines common stock, stock options and stock warrants outstanding at the close of the merger totaling \$2,240,000 as referred to in Note 2 above.

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DESCRIPTION OF TORREYPINES CAPITAL STOCK

The following information describes TorreyPines common stock and preferred stock, as well as options to purchase TorreyPines common stock, and provisions of TorreyPines certificate of incorporation and bylaws, all as in effect upon the consummation of the merger. This description is only a summary. You should also refer to TorreyPines certificate of incorporation and bylaws, which have been previously filed with the SEC and are incorporated by reference as exhibits into the registration statement of which this joint proxy statement/prospectus is a part and more fully described below.

TorreyPines authorized capital stock consists of 150,000,000 shares of common stock, par value \$0.001 per share and 15,000,000 shares of preferred stock, par value \$0.001 per share.

Common Stock

As of August 27, 2009, there were 15,999,058 shares of common stock issued and outstanding and held by 330 stockholders of record. Upon the consummation of the merger, without giving effect to the reverse stock split, there will be approximately 319,981,160 shares of TorreyPines common stock outstanding after issuing approximately 303,982,102 shares of common stock to Raptor's common stockholders pursuant to the merger. In addition, in connection with the merger, all options to purchase shares of Raptor common stock outstanding and unexercised immediately prior to the effective time of the merger will be assumed by TorreyPines and will become options to purchase shares of TorreyPines common stock and all warrants to purchase shares of Raptor common stock outstanding and unexercised immediately prior to the effective time of the merger will be assumed by TorreyPines and will become warrants to purchase shares of TorreyPines common stock. For a description of the treatment of options to purchase shares of Raptor common stock and warrants to purchase shares of Raptor common stock in the merger, see the section titled, "The Merger Assumption of Raptor Stock Options and Warrants" in this joint proxy statement/prospectus.

Dividend Rights

Dividends upon the capital stock of TorreyPines, subject to the provisions of the certificate of incorporation and applicable law, if any, may be declared by the TorreyPines board of directors pursuant to law at any regular or annual meeting. Dividends may be paid in cash, in property, or in shares of the capital stock, subject to the provisions of the certificate of incorporation and applicable law.

Voting Rights

For the purpose of determining those stockholders entitled to vote at any meeting of the TorreyPines stockholders, except as otherwise provided by law, only persons in whose names shares stand on the stock records of the corporation on the record date, as provided in Section 12 of the TorreyPines bylaws, shall be entitled to vote at any meeting of stockholders. Every person entitled to vote shall have the right to do so either in person, by remote communication, if applicable, or by an agent or agents authorized by a proxy granted in accordance with Delaware law. An agent so appointed need not be a stockholder. No proxy shall be voted after three (3) years from its date of creation unless the proxy provides for a longer period. Each share of TorreyPines common stock has identical rights and privileges in every respect.

TorreyPines bylaws provide that holders of shares of TorreyPines common stock have the power to adopt, amend or repeal the bylaws of the corporation; provided, that in addition to any vote of the holders of any class or series of stock of the corporation required by law or by TorreyPines certificate of incorporation, such action by stockholders shall require the affirmative vote of the holders of at least 66-2/3% of the voting power of all of the then-outstanding shares of the capital stock of TorreyPines entitled to vote generally in the election of directors, voting together as a single class. In addition, TorreyPines certificate of incorporation and bylaws provide that a director may be removed at any time without cause by the affirmative vote of the holders of 66-2/3% of all then-outstanding shares of voting stock of TorreyPines entitled to vote at an election of directors.

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No Preemptive or Similar Rights

TorreyPines common stock is not entitled to preemptive rights and is not subject to conversion or redemption.

Right to Receive Liquidation Distributions

If TorreyPines voluntarily or involuntarily liquidates, dissolves or winds-up, the holders of TorreyPines common stock will be entitled to receive after distribution in full of the preferential amounts, if any, to be distributed to the holders of preferred stock or any series of preferred stock, all of the remaining assets available for distribution ratably in proportion to the number of shares of TorreyPines common stock held by them. Holders of TorreyPines common stock have no preferences or any preemptive conversion or exchange rights. The outstanding TorreyPines common stock is, and the shares offered by TorreyPines in the merger will be, fully paid and non-assessable. The rights, preferences and privileges of holders of TorreyPines common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of TorreyPines preferred stock, which TorreyPines board of directors may designate and issue in the future. Upon the closing of the merger, there will be no shares of TorreyPines preferred stock outstanding.

Anti-Takeover Provisions

The provisions of the DGCL, TorreyPines certificate of incorporation and bylaws may have the effect of delaying, deferring, or discouraging another person from acquiring control of TorreyPines. Such provisions could limit the price that some investors might be willing to pay in the future for TorreyPines common stock. These provisions of the DGCL and TorreyPines certificate of incorporation and bylaws may also have the effect of discouraging or preventing certain types of transactions involving an actual or threatened change of control of TorreyPines, including unsolicited takeover attempts, even though such a transaction may offer TorreyPines stockholders the opportunity to sell their stock at a price above the prevailing market price.

TorreyPines is subject to Section 203 of the DGCL, which, subject to certain exceptions, prohibits a Delaware corporation from engaging in any business combination with an interested stockholder for a period of three years following the time that such stockholder became an interested stockholder, unless:

the board of directors of the corporation approves either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder, prior to the time the interested stockholder attained that status;

upon the closing of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the number of shares outstanding those shares owned (a) by persons who are directors and also officers and (b) by employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or

at or subsequent to such time, the business combination is approved by the board of directors and authorized at an annual or special meeting of stockholders, and not by written consent, by the affirmative vote of at least two-thirds of the outstanding voting stock that is not owned by the interested stockholder.

With certain exceptions, an interested stockholder is a person or group who or which owns 15% or more of the corporation's outstanding voting stock (including any rights to acquire stock pursuant to an option, warrant, agreement, arrangement or understanding, or upon the exercise of conversion or exchange rights, and stock with respect to which the person has voting rights only), or is an affiliate or associate of the corporation and was the owner of 15% or more of such voting stock at any time within the previous three years.

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In general, Section 203 defines a business combination to include:

any merger or consolidation involving the corporation and the interested stockholder;

any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder;

subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;

any transaction involving the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested stockholder; or

the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

A Delaware corporation may opt out of this provision with an express provision in its original certificate of incorporation or an express provision in its amended and restated certificate of incorporation or bylaws resulting from a stockholders' amendment approved by at least a majority of the outstanding voting shares. However, TorreyPines has not opted out of this provision. Section 203 could prohibit or delay mergers or other takeover or change-in-control attempts and, accordingly, may discourage attempts to acquire TorreyPines.

TorreyPines' certificate of incorporation and bylaws provide that its board will have one class of directors serving concurrent, one-year terms. Subject to the rights of the holders of any outstanding series of preferred stock, the certificate of incorporation authorizes only the TorreyPines board of directors to fill vacancies, including newly created directorships. Accordingly, this provision could prevent a stockholder from obtaining majority representation on the board of directors by enlarging the board of directors and filling the new directorships with its own nominees. The TorreyPines certificate of incorporation also provides that directors may be removed by stockholders for cause by the affirmative vote of the holders of a majority of the outstanding shares of voting stock or without cause by the affirmative vote of the holders of 66-2/3% of the outstanding shares of voting stock.

TorreyPines' certificate of incorporation also provides that stockholders may not take action by written consent, but may only take action at duly called annual or special meetings of stockholders. The TorreyPines' certificate of incorporation further provides that special meetings of TorreyPines' stockholders may be called only by the chairman of the board of directors, the chief executive officer or a majority of the board of directors. This limitation on the right of stockholders to call a special meeting could make it more difficult for stockholders to initiate actions that are opposed by TorreyPines' board of directors. These actions could include the removal of an incumbent director or the election of a stockholder nominee as a director. They could also include the implementation of a rule requiring stockholder ratification of specific defensive strategies that have been adopted by the board of directors with respect to unsolicited takeover bids. In addition, the limited ability of the TorreyPines stockholders to call a special meeting of stockholders may make it more difficult to change the existing board and management.

TorreyPines' bylaws provide that stockholders seeking to bring business before an annual meeting of stockholders, or to nominate candidates for election as directors at an annual meeting of stockholders, must provide timely notice thereof in writing. To be timely, a stockholder's notice must be delivered to or mailed and received at TorreyPines' principal executive offices not less than 120 days prior to the date of TorreyPines' annual meeting. The bylaws also specify certain requirements as to the form and content of a stockholder's notice. These provisions may preclude stockholders from bringing matters before an annual meeting of stockholders or from making nominations for directors at an annual meeting of stockholders.

The authorized but unissued shares of TorreyPines' common stock and preferred stock are available for future issuance without stockholder approval. These additional shares may be utilized for a variety of corporate purposes, including future public offerings to raise additional capital, corporate acquisitions, employee benefit

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plans and poison pill rights plans. One of the effects of the reverse stock split will be to effectively increase the proportion of authorized shares which are unissued relative to those which are issued. This could result in the combined company's management being able to issue more shares without further stockholder approval and could render more difficult or discourage an attempt to obtain control of TorreyPines by means of a proxy contest, tender offer, merger or otherwise. TorreyPines currently has no plans to issue shares, other than in connection with the merger, the transactions contemplated thereby and in the ordinary course of business.

Transfer Agent

The transfer agent for TorreyPines common stock is American Stock Transfer & Trust Company.

Listing

TorreyPines common stock is quoted on the NASDAQ Global Market under the symbol TPTX. TorreyPines has agreed to cause the shares of TorreyPines common stock to be listed on the NASDAQ Capital Market.

Prior to consummation of the merger, TorreyPines intends to file an initial listing application with the NASDAQ Stock Market. Acceptance of the initial listing application and the listing of the shares of TorreyPines common stock on the NASDAQ Capital Market is a condition to closing the merger. If such application is accepted, TorreyPines anticipates that the combined company's common stock will be listed on the NASDAQ Capital Market upon the closing of the merger and will trade under the combined company's new name, Raptor Pharmaceutical Corp., and new trading symbol, RPTP.

Preferred Stock

TorreyPines' board of directors is authorized to provide for the issuance of shares of preferred stock in one or more series, and to fix for each series voting rights, if any, designations, preferences and relative, participating, optional or other special rights and such qualifications, limitations or restrictions as provided in a resolution or resolutions adopted by the board of directors. TorreyPines' board of directors has authorized the issuance of Series A participating preferred stock which includes terms and conditions which could discourage a takeover or other transaction that holders of some or a majority of common stock might believe to be in their best interests. In addition, TorreyPines' board of directors may authorize the issuance of preferred stock in which holders of preferred stock might receive a premium for their shares over the then market price. TorreyPines has no present plans to issue any shares of preferred stock.

Series A Participating Preferred Stock

Each outstanding share of TorreyPines common stock has attached to it one preferred share purchase right that entitles the registered holder to purchase from TorreyPines a unit of one one-thousandth of a share of its Series A participating preferred stock, which is referred to herein as the Junior Preferred Stock, at a price of \$19.00 per unit. The description and terms of the rights are set forth in a rights agreement dated as of February 13, 2003 by and between the Company and American Stock Transfer & Trust Company, as rights agent, which is referred to herein as the TorreyPines Rights Agreement.

Until the earlier to occur of (i) the close of business on the tenth day after a public announcement that a person or group of affiliated or associated persons has acquired beneficial ownership of 15% or more of TorreyPines' outstanding common stock or (ii) 10 business days (or such later date as may be determined by action of TorreyPines' board of directors prior to such time as any person becomes an acquiring person) following the commencement of, or announcement of an intention to make, a tender offer or exchange offer the consummation of which would result in the beneficial ownership by a person or group of 15% or more of such outstanding common stock (the earlier of such dates is the distribution date), the rights will be evidenced by TorreyPines' common stock certificates.

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The TorreyPines Rights Agreement provides that, until the distribution date, the rights will be transferred with and only with TorreyPines common stock. Until the distribution date (or earlier redemption or expiration of the rights), TorreyPines common stock certificates, upon transfer or new issuance of common stock will contain a notation incorporating the TorreyPines Rights Agreement by reference. Until the distribution date (or earlier redemption or expiration of the rights), the surrender for transfer of any certificates of TorreyPines common stock will also constitute the transfer of the rights associated with the common stock represented by such certificate. As soon as practicable following the distribution date, if any, separate certificates evidencing the rights will be mailed to holders of record of TorreyPines common stock as of the close of business on the distribution date and such separate rights certificates alone will evidence the rights.

The rights are not exercisable until the distribution date. The rights will expire at the close of business on February 24, 2013 unless that final expiration date is extended or unless the rights are earlier redeemed or exchanged by TorreyPines, in each case as described below.

The purchase price payable, and the number of units of Junior Preferred Stock or other securities or property issuable, upon exercise of the rights are subject to adjustment from time to time to prevent dilution (a) in the event of a stock dividend on, or a subdivision, combination or reclassification of, the Junior Preferred Stock, (b) upon the grant to holders of the units of Junior Preferred Stock of certain rights or warrants to subscribe for or purchase units of Junior Preferred Stock at a price, or securities convertible into units of Junior Preferred Stock with a conversion price, less than the then current market price of the units of Junior Preferred Stock or (c) upon the distribution to holders of the units of Junior Preferred Stock of evidences of indebtedness or assets (excluding regular periodic cash dividends paid out of earnings or retained earnings or dividends payable in units of Junior Preferred Stock) or of subscription rights or warrants other than those referred to above).

The number of outstanding rights and the number of units of Junior Preferred Stock issuable upon exercise of each right are also subject to adjustment in the event of a stock split of TorreyPines common stock or a stock dividend on the common stock payable in common stock or subdivisions, consolidations or combinations of the common stock occurring, in any such case, prior to the distribution date.

The Junior Preferred Stock purchasable upon exercise of the rights will not be redeemable. Each share of Junior Preferred Stock will be entitled to an aggregate dividend of 1,000 times the dividend declared per share of TorreyPines common stock. In the event of liquidation, the holders of the shares of Junior Preferred Stock will be entitled to an aggregate payment of 1,000 times the payment made per share of TorreyPines common stock. Each share of Junior Preferred Stock will have 1,000 votes, voting together with the TorreyPines common stock. Finally, in the event of any merger, consolidation or other transaction in which shares of TorreyPines common stock are exchanged, each share of Junior Preferred Stock will be entitled to receive 1,000 times the amount received per share of common stock. These rights are protected by customary anti-dilution provisions.

Because of the nature of the dividend, liquidation and voting rights, the value of each unit of Junior Preferred Stock purchasable upon exercise of each right should approximate the value of one share of common stock.

If, after the rights become exercisable, TorreyPines is acquired in a merger or other business combination transaction with an acquiring person or one of its affiliates, or 50% or more of TorreyPines consolidated assets or earning power are sold to an acquiring person or one of its affiliates, proper provision will be made so that each holder of a right will thereafter have the right to receive, upon exercise thereof at the then current exercise price of the right, that number of shares of common stock of the acquiring company which at the time of such transaction will have a market value of two times the exercise price of the right.

If any person or group of affiliated or associated persons becomes the beneficial owner of 15% or more of the outstanding shares of TorreyPines common stock, proper provision will be made so that each holder of a right, other than rights beneficially owned by the acquiring person (which will thereafter be unexercisable), will have the right to receive upon exercise that number of shares of TorreyPines common stock or units of Junior Preferred Stock (or cash, other securities or property) having a market value of two times the exercise price of the right.

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At any time after the acquisition by a person or group of affiliated or associated persons of beneficial ownership of 15% or more of the outstanding shares of TorreyPines common stock and prior to the acquisition by such person or group of 50% or more of the outstanding common stock, the board of directors of TorreyPines may exchange the rights (other than rights owned by such person or group which have become void), in whole or in part, at a exchange ratio per unit of Junior Preferred Stock equal to the purchase price divided by the then current market price per unit of Junior Preferred Stock on the earlier of (i) the date on which any person becomes an acquiring person and (ii) the date on which a tender or exchange offer is announced which, if consummated would result in the offerer being the beneficial owner of 15% or more of the shares of TorreyPines common stock then outstanding.

With certain exceptions, no adjustment in the purchase price will be required until cumulative adjustments require an adjustment of at least 1% in the purchase price. No fractional shares of Junior Preferred Stock will be issued (other than fractions which are integral multiples of one one-thousandth of a share of Junior Preferred Stock, which may, at the election of TorreyPines, be evidenced by depositary receipts) and, in lieu thereof, an adjustment in cash will be made based on the market price of the units of Junior Preferred Stock on the last trading day prior to the date of exercise.

At any time on or prior to the earlier of (i) the close of business on the tenth day after a public announcement that a person or group of affiliated or associated persons acquires beneficial ownership of 15% or more of the outstanding TorreyPines common stock (unless the board of directors extends the ten day period) or (ii) the tenth business day after a person commences, or announces its intention to commence, a tender offer or exchange offer that would result in the bidder's beneficial ownership of 15% or more of the shares of TorreyPines common stock, the board of directors of TorreyPines may redeem the rights in whole, but not in part, at a price of \$0.01 per right. The redemption of the rights may be made effective at such time, on such basis and with such conditions as the board of directors in its sole discretion may establish. Immediately upon any redemption of the rights, the right to exercise the rights will terminate and the only right of the holders of rights will be to receive the redemption price. The rights are also redeemable under other circumstances as specified in the TorreyPines Rights Agreement.

The terms of the rights may be amended by the board of directors of TorreyPines without the consent of the holders of the rights except that from and after such time that there is an acquiring person no amendment may adversely affect the interests of the holders of the rights.

Until a right is exercised, the holder of a right will have no rights by virtue of ownership as a stockholder of TorreyPines, including, without limitation, the right to vote or to receive dividends.

The rights have certain anti-takeover effects. The rights will cause substantial dilution to a person or group that attempts to acquire TorreyPines on terms not approved by TorreyPines' board of directors, except pursuant to an offer conditioned on a substantial number of rights being acquired. The rights should not interfere with any merger or other business combination approved by the board of directors since the rights may be redeemed by TorreyPines at the redemption price prior to the occurrence of a distribution date. The rights will not be triggered in connection with the merger with Raptor because the TorreyPines Rights Agreement has been amended to specifically exclude the acquisition of TorreyPines common stock by stockholders of Raptor from the provisions of the TorreyPines Rights Agreement.

The TorreyPines Rights Agreement and the amendment of the TorreyPines Rights Agreement entered into in connection with the merger with Raptor specifying the terms of the rights has been previously filed with the SEC and are incorporated by reference as exhibits into the registration statement of which this joint proxy statement/ prospectus is a part. The foregoing description of the rights is qualified in its entirety by reference to the TorreyPines Rights Agreement.

Table of Contents**COMPARISON OF RIGHTS OF HOLDERS OF TORREYPINES STOCK AND RAPTOR STOCK**

Both TorreyPines and Raptor are incorporated under the laws of the State of Delaware and, accordingly, the rights of the stockholders of each are currently, and will continue to be, governed by the DGCL. If the merger is completed, Raptor stockholders will be entitled to become stockholders of TorreyPines, and their rights will be governed by the DGCL, the certificate of incorporation of TorreyPines and the bylaws of TorreyPines, as amended, to the extent applicable, as described in TorreyPines Proposal Nos. 2 and 3, and the amendment to TorreyPines certificate of incorporation, attached as *Annex C* to this joint proxy statement/prospectus. For more information on these proposed amendments to TorreyPines certificate of incorporation, see *Matters Being Submitted To a Vote of TorreyPines Stockholders* on page 127 of this joint proxy statement/prospectus.

The following is a summary of the material differences between the rights of TorreyPines stockholders and the rights of Raptor stockholders under each company's respective certificate of incorporation and bylaws. While TorreyPines and Raptor believe that the summary tables cover the material differences between the rights of their respective stockholders prior to the merger and the rights of TorreyPines stockholders following the merger, this summary may not contain all of the information that is important to you. This summary is not intended to be a complete discussion of the respective rights of TorreyPines and Raptor stockholders and is qualified in its entirety by reference to the DGCL and the various documents of TorreyPines and Raptor that are referred to in this summary. You should carefully read this entire joint proxy statement/prospectus and the other documents referred to in this joint proxy statement/prospectus for a more complete understanding of the differences between being a stockholder of TorreyPines and being a stockholder of Raptor after the merger. TorreyPines and Raptor have filed copies of their respective certificate of incorporation and bylaws with the SEC. See the section titled, *Where You Can Find More Information* on page 273 of this joint proxy statement/prospectus.

Current Raptor Rights Versus Rights Post-Merger (Delaware)

| Provision | Raptor (Pre-Merger) | TorreyPines (Post-Merger) |
|--------------------------|--|--|
| | ELECTIONS; VOTING; PROCEDURAL MATTERS | |
| Authorized Capital Stock | Raptor's certificate of incorporation authorizes the issuance of up to 100,000,000 shares of common stock, par value \$0.001 per share, and 10,000,000 shares of preferred stock, par value \$0.001 per share. Raptor's certificate of designation of Series A Junior Participating Preferred Stock provides that 1,000,000 shares of preferred stock are designated as Series A Junior Participating Preferred Stock. | TorreyPines' certificate of incorporation authorizes the issuance of up to 150,000,000 shares of common stock, par value \$0.001 per share, and 15,000,000 shares of preferred stock, par value \$0.001 per share, of which 100,000 shares are designated as Series A Participating Preferred Stock. |
| Number of Directors | Raptor's bylaws provide that the authorized number of directors be determined from time to time by resolution of the board of directors. | TorreyPines' certificate of incorporation provides that the number of directors that constitute the board of directors will be fixed exclusively by resolutions adopted by a majority of the authorized number of directors constituting the board of directors. |

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| Provision | Raptor (Pre-Merger) | TorreyPines (Post-Merger) |
|---------------------------------------|--|--|
| Stockholder Nominations and Proposals | Raptor’s bylaws provide that in order for a stockholder to make a director nomination or propose business at an annual meeting of the stockholders (or, a special meeting of the stockholders called for the purpose of electing directors, in the case of director nominations), the stockholder must give timely written notice to Raptor’s secretary not later than the close of business on the 90 th day nor earlier than the 120 th day prior to the first anniversary of the preceding year’s annual meeting (with certain adjustments if the date of the annual meeting is advanced by more than 30 days or delayed by more than 30 days from the first anniversary of the preceding year’s annual meeting), and, in the case of a special meeting of stockholders called for the purpose of electing directors, not later than the close of business on the 10 th day following the day on which notice of the date of the special meeting was mailed or public disclosure of the date was made, whichever first occurs. | TorreyPines’ bylaws provide that in order for a stockholder to make a director nomination or propose business at an annual meeting of the stockholders (or, a special meeting of the stockholders called for the purpose of electing directors, in the case of director nominations), the stockholder must give timely written notice to TorreyPines secretary not later than the close of business on the 90 th day nor earlier than the close of business on the 120 th day prior to the first anniversary of the preceding year’s annual meeting (with certain adjustments if the date of the annual meeting is advanced by more than 30 days or delayed by more than 30 days from the first anniversary of the preceding year’s annual meeting), and, in the case of a special meeting of stockholders called for the purpose of electing directors, not earlier than the close of business on the 120 th day prior to such special meeting and not later than the close of business on the later of the 90 th day prior to such meeting or the 10 th day following the day on which public announcement is first made of the date of the special meeting and of the nominees proposed by the board of directors to be elected at such meeting. |
| Classified Board of Directors | Raptor’s certificate of incorporation and bylaws do not provide for the division of the board of directors into classes. | TorreyPines’ certificate of incorporation and bylaws do not provide for the division of the board of directors into classes. |
| Removal of Directors | Under Raptor’s bylaws, a director may be removed at any time only for cause and by the affirmative vote of the holders of at least a majority of the voting power of the issued and outstanding capital stock of the corporation entitled to vote in the election of directors. | Under TorreyPines’ certificate of incorporation and bylaws, a director may be removed at any time (i) with cause by the affirmative vote of the holders of all then-outstanding shares of voting stock entitled to vote at an election of directors, or (ii) without cause by the affirmative vote of the holders of 66-2/3% of all then-outstanding shares of voting stock of the corporation, entitled to vote at an election of directors. |
| Special Meetings of Stockholders | Raptor’s bylaws provide that a special meeting of the stockholders may be called at any time, for any purpose or purposes, by the board of directors, the chairperson of the board of directors, the chief executive officer or the president of the corporation. | TorreyPines’ bylaws provide that a special meeting of the stockholders may be called by the chairman of the board of directors, the chief executive officer or by the board of directors pursuant to a resolution adopted by a majority of the total number of authorized directors. |

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| Provision | Raptor (Pre-Merger) | TorreyPines (Post-Merger) |
|---------------------------------------|---|--|
| Cumulative Voting | Raptor's amended and restated certificate of incorporation and bylaws provide that no stockholder will be permitted to cumulate votes at any election of directors. | The certificate of incorporation and bylaws of TorreyPines do not have a provision granting cumulative voting rights in the election of its directors. |
| Vacancies | Raptor's amended and restated certificate of incorporation and bylaws state that, any vacancy or newly created directorships on the board of directors shall, unless otherwise required by law, be filled by the affirmative vote of a majority of the remaining directors then in office, even though less than a quorum of the board of directors, or by a sole remaining director. Such elected director shall hold office until the next election of the class for which such director shall have been chosen and until his or her successor has been duly elected and qualified. | TorreyPines' certificate of incorporation and bylaws provide that any vacancy or newly created directorships in the board of directors will be filled only by the affirmative vote of a majority of the directors in office, although less than a quorum, or by a sole remaining director, unless otherwise determined by resolution of the board of directors, provided, that whenever the holders of any class of stock are entitled to elect directors, vacancies and newly created directorships of such class will, unless the board determines that the vacancies will be filled by stockholders, be filled by a majority of the directors elected by such class then in office, or by a sole remaining director so elected. Such elected director will hold office for the remainder of the full term of the director for which the vacancy was created and until such director's successor will have been elected and qualified. A vacancy will be deemed to exist in the case of the death, removal or resignation of any director. |
| Voting Stock | Under Raptor's amended and restated certificate of incorporation, each share of common stock is entitled to one vote on any matter submitted to a vote at a meeting of stockholders. Raptor's certificate of designation of Series A Junior Participating Preferred Stock provides that each share of Junior A Preferred shall, on any matter, vote as a class with the common stock and shall have the number of votes thereon that a holder of 1,000 shares (subject to adjustment in certain circumstances) of common stock would have. | Under TorreyPines' certificate of incorporation and bylaws, each outstanding share of common stock shall entitle the holder thereof to one vote on each matter properly submitted to the stockholders of the corporation for their vote. TorreyPines' certificate of incorporation further provides that each share of Series A Participating Preferred Stock shall entitle the holder thereof to 1,000 votes (subject to adjustment in certain circumstances) on all matters submitted to a vote of the stockholders of the corporation. |
| Stockholder Action by Written Consent | Raptor's amended and restated certificate of incorporation specifies that any action required or permitted to be taken by the stockholders of the corporation must be effected at a duly called annual or special meeting of the stockholders of the corporation and may not be effected by any consent in writing by such stockholders. | TorreyPines' certificate of incorporation and bylaws specify that no action will be taken by the stockholders except at an annual or special meeting of the stockholders and that no action will be taken by the stockholders by written consent. |

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| Provision | Raptor (Pre-Merger) | TorreyPines (Post-Merger) |
|---|--|---|
| Notice of Annual Meeting | Under Raptor’s bylaws, written notice of each stockholder meeting must include the place, date and hour of such meeting, the means of remote communication, if any, by which the stockholders and proxy holders may be deemed to be present in person and vote at such meeting, and, in the case of a special meeting, the purpose or purposes for which the meeting is called. Notice will be given not less than 10 nor more than 60 days prior to the date of the meeting to each stockholder entitled to vote at such meeting, except as otherwise required by applicable law. | Under TorreyPines’ bylaws, written notice of each stockholder meeting must include the place, date and hour of such meeting, the means of remote communication, if any, by which the stockholders and proxy holders may be deemed to be present in person and vote at such meeting, and, in the case of a special meeting, the purpose or purposes for which the meeting is called. Notice will be given not less than 10 nor more than 60 days prior to the date of the meeting to each stockholder entitled to vote at such meeting. |
| Conversion Rights and Protective Provisions | Under Raptor’s amended and restated certificate of incorporation, holders of Raptor’s common stock have no preemptive or other rights. | Under TorreyPines’ certificate of incorporation, holders of TorreyPines’ stock have no preemptive or other rights, except as such rights are expressly provided by contract. |
| INDEMNIFICATION OF OFFICERS AND DIRECTORS AND ADVANCEMENT OF EXPENSES; LIMITATION ON PERSONAL LIABILITY | | |
| Indemnification | Raptor’s amended and restated certificate of incorporation provides that the corporation may indemnify any person made or threatened to be made a party to an action or proceeding by reason of the fact that he, she, his or her testator or intestate is or was a director, officer, employee or agent of the corporation (or served or serves at any other enterprise at the request of the corporation). Raptor’s bylaws provide that Raptor shall indemnify its directors and officers to the fullest extent permitted by the DGCL; provided, that the determination as to whether a person is entitled to indemnification under the bylaws shall be determined (i) by a majority vote of the directors who are not party to the action, suit or proceeding, (ii) by a committee of such directors designated by a majority vote of such directors, even though less than a quorum, (iii) if there are no such directors, or if such directors so direct, by independent legal counsel in a written opinion, or (iv) by the stockholders (but only if a majority of the directors who are not parties to such action, suit or proceeding, if they constitute a quorum of the board of directors, presents the | TorreyPines’ bylaws provide that TorreyPines shall indemnify its directors and executive officers to the fullest extent not prohibited by the DGCL or any other applicable law; provided, that the corporation may modify the extent of such indemnification by individual contracts with its directors and executive officers; and, provided further, that the corporation shall not be required to indemnify any director or executive officer in connection with any proceeding initiated by such person unless (i) such indemnification is expressly required to be made by law, (ii) the proceeding was authorized by the board of directors of the corporation, (iii) such indemnification is provided by the corporation, in its sole discretion, pursuant to the powers vested in the corporation under the DGCL or any other applicable law. |

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| Provision | Raptor (Pre-Merger) | TorreyPines (Post-Merger) |
|--------------------------------|--|---|
| | <p>issue of entitlement to indemnification to the stockholders for their determination; and, provided further, that with respect to an action by or in the right of the corporation, if such director or officer shall have been adjudicated to be liable to the corporation, then such person shall be entitled to indemnification unless and only to the extent that the Delaware Court of Chancery or the court in which such action was brought shall determine that, despite the adjudication of liability, such person is fairly and reasonably entitled to indemnity.</p> | |
| <p>Advancement of Expenses</p> | <p>Raptor's bylaws provide that, to the fullest extent not prohibited by the DGCL or any other applicable law, expenses incurred by a person who is or was a director or officer in defending any civil, criminal, administrative or investigative action, suit or proceeding shall be paid by the corporation in advance of the final disposition of such action, suit or proceeding.</p> | <p>TorreyPines' bylaws provide that the corporation shall advance expenses to any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he is or was a director or executive officer of the corporation, or is or was serving at the request of the corporation as a director or executive officer of another corporation, partnership, joint venture, trust or other enterprise, prior to the final disposition of the proceeding.</p> |

DIVIDENDS

| | | |
|---|--|---|
| <p>Declaration and Payment of Dividends</p> | <p>Raptor's bylaws provide that, subject to any restrictions contained in either the DGCL or Raptor's amended and restated certificate of incorporation, the board of directors may declare and pay dividends upon the shares of its capital stock. Dividends may be paid in cash, in property, or in shares of capital stock.</p> | <p>TorreyPines' bylaws provide that, subject to the provisions of TorreyPines' certificate of incorporation and applicable law, the board of directors may declare dividends pursuant to law at any regular or special meeting. Dividends may be paid in cash, in property, or in shares of capital stock, subject to the provisions of the certificate of incorporation and applicable law. Before payment of any dividend, the board of directors may set aside any funds of TorreyPines available for dividends as the board of directors from time to time, in its absolute discretion, thinks proper as a reserve for any purpose the board of directors thinks conducive to the interests of TorreyPines.</p> |
|---|--|---|

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| Provision | Raptor (Pre-Merger) | TorreyPines (Post-Merger) |
|---|--|--|
| | AMENDMENTS TO CERTIFICATE OF INCORPORATION OR BYLAWS | |
| Amendments to Certificate of Incorporation General Provisions | <p>Raptor’s amended and restated certificate of incorporation provides that Raptor reserves the right to amend or repeal any provision contained in the amended and restated certificate of incorporation in the manner prescribed by the laws of the State of Delaware; provided, however, that the board of directors acting pursuant to a resolution adopted by a majority of the board of directors and the affirmative vote of 66 2/3% of the then outstanding voting securities of the corporation shall be required for the amendment, repeal or modification of the certain provisions of Raptor’s amended and restated certificate of incorporation.</p> <p>Raptor’s amended and restated certificate of incorporation also provides that holders of common stock shall not be entitled to vote on any amendment to Raptor’s amended and restated certificate of incorporation (including any certificate of designation filed with respect to any series of preferred stock) that relates solely to the terms of one or more outstanding series of preferred stock if the holders of such affected series are entitled, either separately or together as a class with the holders of one or more other such series, to vote thereon by law or pursuant to Raptor’s amended and restated certificate of incorporation (including any certificate of designation filed with respect to any series of preferred stock).</p> | <p>TorreyPines’ certificate of incorporation provides that TorreyPines reserves the right to repeal, alter, amend or rescind any provision of the certificate of incorporation. At any time that any shares of Series A Participating Preferred Stock are outstanding, the certificate of incorporation and the bylaws of the corporation shall not be further amended in any manner which would materially alter or change the powers, preferences or special rights of the Series A Participating Preferred Stock so as to affect them adversely without the affirmative vote of the holders of at 66-2/3% of the outstanding shares of Series A Participating Preferred Stock voting separately as a class.</p> <p>TorreyPines’ certificate of incorporation also provides that holders of common stock shall not be entitled to vote on any amendment to TorreyPines’ certificate of incorporation (including any certificate of designation filed with respect to any series of preferred stock) that relates solely to the terms of one or more outstanding series of preferred stock if the holders of such affected series are entitled, either separately or together as a class with the holders of one or more other such series, to vote thereon by law or pursuant to TorreyPines’ certificate of incorporation (including any certificate of designation filed with respect to any series of preferred stock).</p> |
| Amendments to Bylaws General Provisions | <p>Raptor’s amended and restated certificate of incorporation provides that the board of directors is expressly authorized to adopt, alter, amend or repeal the bylaws of the corporation. The affirmative vote of at least a majority of the board of directors then in office shall be required in order for the board of directors to adopt, amend, alter or repeal the corporation’s bylaws. The corporation’s bylaws may also be adopted, amended, altered or repealed by the stockholders of the corporation. Furthermore, Raptor’s amended and restated certificate of incorporation provides that, notwithstanding anything in Raptor’s amended and restated certificate of</p> | <p>TorreyPines’ certificate of incorporation provides that the board of directors is expressly empowered to adopt, amend or repeal the bylaws of the corporation. The stockholders shall also have power to adopt, amend or repeal the bylaws of the corporation; provided, that in addition to any vote of the holders of any class or series of stock of the corporation required by law or by TorreyPines’ certificate of incorporation, the affirmative vote of the holders of a majority of the voting power of all of the then-outstanding shares of the capital stock of the corporation entitled to vote generally in the election of directors, voting together as</p> |

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Provision

Raptor (Pre-Merger)

incorporation to the contrary, the bylaws of the corporation may not be amended, altered, or repealed except in accordance with Raptor's bylaws.

Raptor's bylaws provide that the bylaws of the corporation may be adopted, amended or repealed by a majority of the voting power of the stockholders entitled to vote; provided, however, that the corporation may, in its certificate of incorporation, also confer the power to adopt, amend or repeal bylaws upon the board of directors. The fact that such power has been so conferred upon the board of directors shall not divest the stockholders of the power, nor limit their power to adopt, amend or repeal bylaws. Notwithstanding the foregoing and any provision of law that might otherwise permit a lesser vote or no vote, the board of directors acting pursuant to a resolution adopted by a majority of the board of directors and the affirmative vote of the holders at least sixty-six and two-thirds percent (66²/3%) of the voting power of the issued and outstanding shares of capital stock of the corporation then entitled to vote shall be required to amend or repeal certain provisions of Raptor's bylaws.

TorreyPines (Post-Merger)

a single class, shall be required to adopt, amend or repeal any provision of the bylaws of the corporation.

TorreyPines' bylaws provide that the board of directors is expressly empowered to adopt, amend or repeal the bylaws of the corporation. The stockholders also shall have power to adopt, amend or repeal the bylaws of the corporation; provided, that in addition to any vote of the holders of any class or series of stock of the corporation required by law or by TorreyPines' certificate of incorporation, such action by stockholders shall require the affirmative vote of the holders of at least 66²/3% of the voting power of all of the then-outstanding shares of the capital stock of the corporation entitled to vote generally in the election of directors, voting together as a single class.

Table of Contents**PRINCIPAL STOCKHOLDERS OF TORREYPINES**

Except where specifically noted, the following information and all other information contained in this joint proxy statement/prospectus do not give effect to the reverse stock split described in TorreyPines Proposal No. 2.

The following table shows information known to TorreyPines with respect to the beneficial ownership of TorreyPines common stock as of August 27, 2009 by:

each person or group of affiliated persons who is known by TorreyPines to own beneficially more than 5% of TorreyPines common stock;

each of TorreyPines current directors;

each of TorreyPines named executive officers identified below; and

all of TorreyPines directors and executive officers as a group.

As of August 27, 2009 there were 15,999,058 shares of TorreyPines common stock issued and outstanding. The numbers of shares beneficially owned include shares of common stock that the listed beneficial owners have the right to acquire within 60 days of August 27, 2009 upon the exercise of all options and other rights beneficially owned on that date. Unless otherwise noted, TorreyPines believes that all persons named in the table have sole voting and investment power with respect to all the shares beneficially owned by them.

| Beneficial Owner | Beneficial Ownership(1) | |
|--|-------------------------|------------------|
| | Number of Shares | Percent of Total |
| Alta Partners(2) | 2,652,583 | 16.2% |
| GIMV N.V.(3) | 2,628,603 | 16.0% |
| Advent International(4) | 1,570,559 | 9.7% |
| Wellington Capital Management Co. LLP | 1,137,937 | 7.1% |
| Lloyd Miller | 935,185 | 5.8% |
| Peter Davis, Ph.D.(5) | 26,496 | * |
| Steven H. Ferris, Ph.D.(5) | 45,687 | * |
| Steven B. Ratoff(5) | 137,870 | * |
| Evelyn A. Graham(5) | 531,662 | 3.2% |
| Craig A. Johnson(5) | 458,745 | 2.8% |
| Paul R. Schneider(5) | 343,900 | 2.1% |
| All executive officers and directors as a group (6 persons)(6) | 1,544,360 | 8.9% |

* Less than one percent.

- (1) This table is based upon information supplied by officers, directors and principal Stockholders and Schedules 13D and 13G filed with the SEC. Unless otherwise indicated in the footnotes to this table and subject to community property laws where applicable, TorreyPines believes that each of the stockholders named in this table has sole voting and investment power with respect to the shares indicated as beneficially owned. Applicable percentages are based on 15,999,058 shares outstanding on August 27, 2009 adjusted as required by rules promulgated by the SEC.
- (2) Includes 1,258,044 shares held of record and a warrant to purchase 229,823 shares held by Alta California Partners II, L.P., 358,414 shares held of record and a warrant to purchase 67,557 shares held by Alta California Partners II, L.P. New Pool, 15,893 shares held of record and a warrant to purchase 2,903 shares held by Alta Embarcadero Partners II, LLC, 547,128 shares held of record and a warrant to purchase 103,127 shares held by Alta BioPharma Partners III, L.P., 36,744 shares held of record and a warrant to purchase 6,926 shares held by Alta BioPharma Partners III GmbH & Co. Beteiligungs KG, 13,483 shares held of record and a warrant to purchase 2,541 shares held by Alta

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Embarcadero BioPharma Partners III, LLC and an option to purchase 10,000 shares held by Jean Deleage, Ph.D. Alta Partners LP, as the parent of each of Alta BioPharma Partners III GmbH & Co. Beteiligungs, Alta BioPharma Partners III, L.P., Alta California Partners II, L.P., Alta California Partners II, L.P. New Pool, Alta Embarcadero BioPharma Partners III, LLC and Alta Embarcadero Partners II, LLC, may be deemed to beneficially own such shares. The address of Alta Partners LP is One Embarcadero Center, Suite 3700, San Francisco, CA 94111.

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- (3) Includes 1,544,403 shares held of record and a warrant to purchase 286,897 shares held by GIMV N.V., 477,704 shares held of record and a warrant to purchase 90,041 shares held by Biotech Fonds Vlaanderen, N.V., and 193,776 shares held of record and a warrant to purchase 35,782 shares held by Adviesbeheer GIMV Life Sciences N.V. GIMV N.V., as the parent of each of Biotech Fonds Vlaanderen, N.V. and Adviesbeheer GIMV Life Sciences N.V., may be deemed to beneficially own such shares. The address of GIMV, N.V. is Karel Oomsstraat 37, B-2018, Antwerp, Belgium.
- (4) Includes 1,197,723 shares held of record and a warrant to purchase 217,930 shares held by Advent Health Care and Life Sciences II Limited Partnership; 93,350 shares held of record and a warrant to purchase 16,984 shares held by Advent Health Care and Life Sciences II Beteiligung GmbH & Co. KG; 26,567 shares held of record and a warrant to purchase 4,835 shares held by Advent HLS II Limited Partnership; 2,677 shares held of record and a warrant to purchase 493 shares held by Advent Partners Limited Partnership and an option to purchase 10,000 shares held by Jason S. Fisherman, M.D. Each fund disclaims beneficial ownership of the others' shares. The address of Advent Healthcare Ventures is 75 State Street, Boston, MA 02109.
- (5) Includes shares described in notes (1), (2), (3) and (4), as applicable, including shares issuable upon exercise of the warrants described in the notes above, which the applicable holder has the right to acquire within 60 days after the date of this table. Includes shares which certain executive officers and directors of TorreyPines have the right to acquire within 60 days after the date of this table pursuant to outstanding options, as follows: Peter Davis, 21,624 shares; Steven H. Ferris, 45,687 shares; Steven B. Ratoff, 56,662 shares; Evelyn A. Graham, 499,182 shares; Craig A. Johnson, 426,265 shares; Paul R. Schneider, 343,900 shares; and all executive officers and directors as of August 27, 2009 as a group, 1,393,320 shares. The address for each of the executive officers and directors is c/o TorreyPines Therapeutics, Inc., P.O. Box 231386, Encinitas, CA 92023-1386.
- (6) Total includes executive officers and directors as of August 27, 2009.

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PRINCIPAL STOCKHOLDERS OF RAPTOR

The following tables and the related notes present information on the beneficial ownership of shares of Raptor common stock as of August 27, 2009, except as noted in the footnotes, by:

each director and named executive officer of Raptor,

each person or group who is known to the management of Raptor to be the beneficial owner of more than 5% of any class of Raptor's voting securities outstanding as of August 27, 2009, and

all current directors and current executive officers of Raptor as a group.

Unless otherwise indicated in the footnotes to this table and subject to the voting agreements entered into by executive officers and directors of Raptor with TorreyPines, Raptor believes that each of the stockholders named in this table has sole voting and investment power with respect to the shares indicated as beneficially owned.

The number of shares owned, total shares beneficially owned and common stock beneficially owned is set forth below. The percentage of common stock beneficially owned is based on 76,601,297 shares of Raptor common stock outstanding as of August 27, 2009. Shares of Raptor common stock subject to options or warrants that are currently exercisable or are exercisable within 60 days of August 27, 2009 are treated as outstanding and beneficially owned by the person holding them for the purpose of computing the percentage ownership of that person but are not treated as outstanding for the purpose of computing the percentage ownership of any other stockholder. Unless otherwise indicated below, the address for each person and entity named in the table is: c/o Raptor Pharmaceuticals Corp., 9 Commercial Blvd., Suite 200, Novato, CA 94949.

| Name and Address of Beneficial Owner | Number of Shares Owned | + | Common Stock Underlying Options and/or Warrants Exercisable | | = | Total Shares Beneficially Owned | Percent of Common Stock Beneficially Owned |
|--------------------------------------|------------------------|---|---|--|---|---------------------------------|--|
| | | | Within 60 Days | | | | |
| 5% Stockholders | | | | | | | |
| Aran Asset Management SA(1) | 19,728,332 | | 3,150,000 | | | 22,878,332 | 28.7% |
| Flower Ventures, LLC | 3,249,337 | | 1,000,796 | | | 4,250,133 | 5.5% |

| Name and Address of Beneficial Owner | Number of Shares Owned | + | Common Stock Underlying Options and/or Warrants Exercisable | | = | Total Shares Beneficially Owned | Percent of Common Stock Beneficially Owned |
|---|------------------------|---|---|--|---|---------------------------------|--|
| | | | Within 60 Days | | | | |
| Named Executive Officers and Directors | | | | | | | |
| Christopher M. Starr, Ph.D. | 3,000,000 | | 250,000 | | | 3,250,000 | 4.2% |
| Todd C. Zankel, Ph.D. | 3,000,000 | | 250,000 | | | 3,250,000 | 4.2% |

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| | | | | |
|---|-----------|-----------|-----------|-------|
| Erich Sager | 1,010,000 | 1,058,332 | 2,068,332 | 2.7% |
| Kim R. Tsuchimoto | 2,500 | 294,165 | 296,665 | * |
| Thomas E. Daley | 400,000 | 107,290 | 507,290 | * |
| Patrice P. Rioux, M.D., Ph.D. | | 18,750 | 18,750 | * |
| William R. Anderson | | 558,332 | 558,332 | * |
| Richard L. Franklin | | 46,874 | 46,874 | * |
| All directors and executive officers of Raptor as a group (8 persons) | 7,412,500 | 2,583,743 | 9,996,243 | 13.0% |

* Less than 1%

(1) Aran Asset Management disclaims beneficial ownership of the shares registered in its name on behalf of its clients.

Table of Contents**PRINCIPAL STOCKHOLDERS OF COMBINED COMPANY**

The following table and the related notes present certain information with respect to the beneficial ownership of the combined company upon consummation of the merger, by (1) each director and executive officer of the combined company, (2) each person or group who is known to the management of TorreyPines and Raptor to become the beneficial owner of more than 5% of the common stock of the combined company upon the consummation of the merger and (3) all directors and executive officers of the combined company as a group. Unless otherwise indicated in the footnotes to this table and subject to the voting agreements entered into by directors and executive officers of TorreyPines and Raptor, TorreyPines and Raptor believe that each of the persons named in this table has sole voting and investment power with respect to the shares indicated as beneficially owned.

The percent of TorreyPines common stock is based on 15,999,058 shares of TorreyPines common stock outstanding as of August 27, 2009. The percent of Raptor common stock is based on 76,601,297 shares of Raptor common stock outstanding as of August 27, 2009. The percent of common stock of the combined company is based on 319,981,160 shares of common stock of the combined company outstanding upon the consummation of the merger and assumes that the exchange ratio to be used in connection with the merger is the number of shares of TorreyPines common stock equal to the 303,982,102 shares of TorreyPines common stock to be issued in the merger divided by 76,601,297 shares of Raptor common stock outstanding as of the signing of the merger agreement plus 350,000 shares of Raptor common stock issuable pursuant to Raptor stock options outstanding as of the signing of the merger agreement plus any additional shares of Raptor common stock and securities exercisable for or exchangeable or convertible into Raptor common stock that may be issued following the execution of the merger agreement and prior to the effective time of the merger shares of common stock for each share of Raptor common stock. Shares of TorreyPines common stock subject to options that are currently exercisable or are exercisable within 60 days after August 27, 2009 are treated as outstanding and beneficially owned by the person holding them for the purpose of computing the percentage ownership of TorreyPines common stock of that person but are not treated as outstanding for the purpose of computing the percentage ownership of TorreyPines common stock of any other person. Shares of Raptor common stock subject to options and warrants that are currently exercisable or are exercisable within 60 days of August 27, 2009 are treated as outstanding and beneficially owned by the person holding them for the purpose of computing the percentage ownership of Raptor common stock of that person but are not treated as outstanding for the purpose of computing the percentage ownership of Raptor common stock of any other stockholder.

| Name of Beneficial Owner | Percent of Common Stock of TorreyPines | Percent of Common Stock of Raptor | Percent of Common Stock of the Combined Company |
|---|---|---|--|
| 5% Stockholders | | | |
| Aran Asset Management SA(1) | | 28.7 | 27.3 |
| Flower Ventures, LLC | | 5.5 | 5.2 |
| Directors and Executive Officers | | | |
| Christopher M. Starr, Ph.D. | | 4.2 | 4.0 |
| Todd C. Zankel, Ph.D. | | 4.2 | 4.0 |
| Erich Sager | | 2.7 | 2.5 |
| Kim R. Tsuchimoto | | * | * |
| Thomas E. Daley | | * | * |
| Patrice P. Rioux, M.D., Ph.D. | | * | * |
| William R. Anderson | | * | * |
| Richard L. Franklin, M.D., Ph.D. | | * | * |
| All directors and executive officers of Raptor as a group (8 persons) | | 13.0 | 12.3 |

* Less than 1%

(1) Aran Asset Management disclaims beneficial ownership of the shares registered in its name on behalf of its clients.

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LEGAL MATTERS

Cooley Godward Kronish LLP, San Diego, California will pass upon the validity of the TorreyPines common stock offered by this joint proxy statement/prospectus. Certain United States federal income tax consequences of the merger and the reverse stock split will be passed upon for TorreyPines by Cooley Godward Kronish LLP. Certain United States federal income tax consequences of the merger will be passed upon for Raptor by Paul, Hastings, Janofsky & Walker LLP.

EXPERTS

The consolidated financial statements of TorreyPines Therapeutics, Inc. at December 31, 2008 and 2007, and for each of the years in the three-year period ended December 31, 2008, included in this joint proxy statement of TorreyPines Therapeutics, Inc. and Raptor Pharmaceuticals Corp., which is referred to and made a part of this Prospectus and Registration Statement, have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their report (which contains an explanatory paragraph describing conditions that raise substantial doubt about the Company's ability to continue as a going concern as described in Note 1 to the consolidated financial statements), appearing elsewhere herein, and are included in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

The consolidated financial statements of Raptor Pharmaceuticals Corp. at August 31, 2008 and 2007, and for the years ended August 31, 2008 and 2007 and the period from September 8, 2005 (inception) to August 31, 2008, included in this joint proxy statement/prospectus, have been audited by Burr Pilger and Mayer, LLP, independent registered public accounting firm, as set forth in their report, appearing elsewhere herein, and are included in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

TorreyPines and Raptor file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy any reports, statements or other information that TorreyPines and Raptor file at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549 on official business days during the hours of 10AM to 3PM. Please call the SEC at 1-800-SEC-0330 for further information on the Public Reference Room. TorreyPines' and Raptor's SEC filings are also available to the public from commercial document retrieval services and on the website maintained by the SEC at <http://www.sec.gov>. Reports, proxy statements and other information concerning TorreyPines and Raptor also may be inspected at the offices of the Financial Industry Regulatory Authority, Inc., Listing Section, 1735 K Street, Washington, D.C. 20006. You may also obtain free copies of the documents that TorreyPines files with the SEC by going to the Investor Center section of TorreyPines' website, www.tptxinc.com. Copies of the documents that Raptor files with the SEC are available to you free of charge at the Investors and Media section of Raptor's website, www.raptorpharma.com. The information provided on TorreyPines' and Raptor's websites is not part of this joint proxy statement/prospectus, and therefore is not incorporated by reference.

As of the date of this joint proxy statement/prospectus, TorreyPines has filed a registration statement on Form S-4 to register with the SEC the TorreyPines common stock that TorreyPines will issue to Raptor stockholders in the merger. This joint proxy statement/prospectus is a part of that registration statement and constitutes a prospectus of TorreyPines, as well as a proxy statement of TorreyPines and Raptor for their respective stockholder meetings.

TorreyPines has supplied all information contained in this joint proxy statement/prospectus relating to TorreyPines, and Raptor has supplied all information contained in this joint proxy statement/prospectus relating to Raptor.

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If you would like to request documents from TorreyPines or Raptor, please send a request in writing or by telephone to either TorreyPines or Raptor at the following address:

TorreyPines Therapeutics, Inc.

P.O. Box 231386

Encinitas, CA 92023-1386

(858) 623-5665

Attn: Investor Relations

Raptor Pharmaceuticals Corp.

9 Commercial Blvd., Suite 200

Novato CA 94949

(415) 382-1427

Attn: Secretary

You should rely only on the information contained in this joint proxy statement/prospectus to vote your shares at the stockholder meetings. Neither TorreyPines nor Raptor has authorized anyone to provide you with information that differs from that contained in this joint proxy statement/prospectus. This joint proxy statement/prospectus is dated August 28, 2009. You should not assume that the information contained in this joint proxy statement/prospectus is accurate as of any date other than that date, and neither the mailing of this joint proxy statement/prospectus to stockholders nor the issuance of shares of TorreyPines common stock in the merger shall create any implication to the contrary.

Information on TorreyPines Website

Information on any TorreyPines website is not part of this joint proxy statement/prospectus and you should not rely on that information in deciding whether to approve any of the proposals described in this joint proxy statement/prospectus, unless that information is also in this joint proxy statement/prospectus.

Information on Raptor's Website

Information on any Raptor website is not part of this joint proxy statement/prospectus and you should not rely on that information in deciding whether to approve any of the proposals described in this joint proxy statement/prospectus, unless that information is also in this joint proxy statement/prospectus.

Trademark Notice

TorreyPines, TorreyPines logos and all other TorreyPines product and service names are registered trademarks or trademarks of TorreyPines in the United States and in other select countries. Raptor, the Raptor logos and all other Raptor product and service names are registered trademarks or trademarks of Raptor in the United States and in other select countries. ® and indicate U.S. registration and U.S. trademark, respectively. Other third-party logos and product/trade names are registered trademarks or trade names of their respective companies.

OTHER MATTERS

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Securities Exchange Act of 1934 requires directors and executive officers of TorreyPines, and persons who own more than 10% of a registered class of TorreyPines securities, to file with the SEC initial reports of ownership and reports of changes in ownership of common stock and other equity securities of TorreyPines. Based solely on a review of copies of such forms received with respect to fiscal year 2008 and the written representations received from certain reporting persons that no other reports were required, TorreyPines believes that all directors, executive officers and persons who own more than 10% of TorreyPines common stock have complied with the reporting requirements of Section 16(a).

Section 16(a) of the Securities Exchange Act of 1934 requires directors and executive officers of Raptor and 10% stockholders of a registered class of equity securities of Raptor to file reports of ownership and reports of

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changes in ownership of common stock and other equity securities with the SEC. Directors, executive officers and 10% stockholders of a registered class of equity securities are required to furnish Raptor with copies of all Section 16(a) forms they file. Based on a review of the copies of such reports furnished to Raptor, it believes that during the fiscal year ended August 31, 2008, its directors, executive officers and 10% stockholders of a registered class of equity securities timely filed all Section 16(a) reports applicable to them. On December 12, 2007 Mr. Daley, President of Raptor's clinical subsidiary, filed a Form 3 which should have been filed by September 20, 2007 and filed two Form 4s, one of which should have been filed by September 12, 2007 and the other of which should have been filed by October 17, 2007. The reason for the delays in Mr. Daley's filings was that Raptor had not determined whether Mr. Daley was a Section 16 filer until December 2007, which was three months after his employment commenced. Since December 2007, all of Mr. Daley's Section 16 filings have been timely.

Stockholder Proposals

The deadline for stockholders to submit proposals to be considered for inclusion in the combined company's proxy statement for next year's annual meeting of stockholders is April 29, 2010. However, if the combined company changes the date of next year's annual meeting of stockholders by more than 30 days from the anniversary of the date of the TorreyPines annual meeting, then stockholders will have a reasonable time before the combined company begins to print and mail its proxy materials for next year's annual meeting to submit proposals. Such proposals may be included in next year's proxy statement if they comply with certain rules and regulations promulgated by the SEC and the procedures set forth in the combined company's bylaws, as amended, which, among other things, require notice to be delivered or mailed and received at the combined company's executive offices.

In addition, the deadline for stockholders to submit proposals, including director nominations, that will not be included in the combined company's proxy statement for next year's annual meeting of stockholders is no later than June 30, 2010, but no earlier than May 31, 2010; provided, however, if next year's annual meeting of stockholders of the combined company is advanced more than 30 days prior to or delayed by more than 30 days after the anniversary of the date of the TorreyPines annual meeting, notice by a stockholder will be timely if delivered not earlier than the close of business on the later of the ninetieth day prior to the annual meeting of stockholders of the combined company or the tenth day following the day on which public announcement of the date of such meeting is first made.

Any proposals of stockholders intended to be included in the proxy statement for the annual meeting relating to Raptor's Fiscal Year 2009 must be received by it no later than April 29, 2010, must meet the stockholder proposal requirements contained in Rule 14a-8 of the Exchange Act, and must otherwise comply with applicable requirements and laws in order that they may be included in the proxy statement and form of proxy relating to that meeting. However, if Raptor changes the date of the annual meeting of stockholders relating to Fiscal Year 2009 by more than 30 days from the anniversary of the date of the annual meeting of stockholders relating to its Fiscal Year 2008, then stockholders will have a reasonable time before Raptor begins to print and mail its proxy materials for the meeting relating to Fiscal Year 2009 to submit proposals. All notices or proposals, whether or not to be included in Raptor's proxy materials, must be sent to its principal executive offices at Raptor Pharmaceuticals Corp., 9 Commercial Blvd., Suite 200, Novato, CA 94949, Attention: Corporate Secretary.

If a stockholder intends to submit a proposal at Raptor's annual meeting relating to Fiscal Year 2009, which proposal is not intended to be included in Raptor's proxy statement and form of proxy relating to that meeting, the stockholder must give appropriate notice to the secretary of Raptor at the address in the preceding paragraph no later than June 30, 2010, and no earlier than May 31, 2010; provided, however, if the annual meeting relating to Raptor's Fiscal Year 2009 is called for a date that is not within 30 days before or after the first anniversary of the date of the Raptor annual meeting, notice by a stockholder will be timely if received not later than the close of business on the tenth day following the day on which such notice of the date of the annual meeting relating to

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Raptor's Fiscal Year 2009 was mailed or public disclosure of the date of the meeting was made, whichever occurs first. A stockholder's notice to Raptor's Secretary shall set forth as to each matter the stockholder proposes to bring before the annual meeting: (a) a brief description of the business desired to be brought before the annual meeting and the reasons for conducting such business at the annual meeting, (b) the name and address, as they appear on the Raptor's books, of the stockholder proposing such business, (c) the class and number of shares of Raptor that are beneficially owned by the stockholder, (d) any material interest of the stockholder in such business, and (e) any other information that is required to be provided by the stockholder pursuant to Rule 14a-8 of the Exchange Act, in his or her capacity as a proponent to a stockholder proposal. If a stockholder gives notice of such a proposal after the notice period, such proposal will be considered untimely and the stockholder will not be permitted to present the proposal to the stockholders for a vote at the annual meeting. Stockholders may contact Raptor's Secretary for additional requirements for making stockholder proposals and nominating director candidates.

Communication with the TorreyPines Board of Directors

Historically, TorreyPines has not provided a formal process related to stockholder communications with its board of directors. Nevertheless, every effort has been made to ensure that the views of stockholders are heard by the board of directors or individual directors, as applicable, and that appropriate responses are provided to stockholders in a timely manner. TorreyPines believes its responsiveness to stockholder communications to the board of directors has been excellent. Therefore, the TorreyPines board of directors does not believe a formal process for stockholder communications is necessary at this time.

Communication with the Raptor Board of Directors

The Raptor board of directors has provided a procedure for stockholders or other persons to send written communications to the Raptor board of directors, a Raptor board of directors committee or any of the directors, including complaints to the Audit Committee regarding accounting, internal accounting controls, or auditing matters. Stockholders may send written communications to the Raptor board of directors, the appropriate committee or any of the directors by certified mail only, c/o Audit Committee Chairman, Raptor Pharmaceuticals Corp., 9 Commercial Blvd., Suite 200, Novato, CA 94949. All such written communications will be compiled by the Chairman of the Audit Committee and submitted to the Raptor board of directors, a committee of the Raptor board of directors or the individual director(s), as appropriate, within a reasonable period of time. These communications will be retained with Raptor's corporate records.

Delivery of this Joint Proxy Statement/Prospectus to Multiple Stockholders with the Same Address

The SEC has adopted rules that permit companies and intermediaries (e.g., brokers) to satisfy the delivery requirements for proxy statements and annual reports with respect to two or more stockholders sharing the same address by delivering a single proxy statement addressed to those stockholders. This process, which is commonly referred to as householding, potentially means extra convenience for stockholders and cost savings for companies.

Householding of Proxy Materials for TorreyPines Stockholders

This year, a number of brokers with account holders who are TorreyPines stockholders will be householding TorreyPines proxy materials. A single copy of this joint proxy statement/prospectus will be delivered to multiple TorreyPines stockholders sharing an address unless contrary instructions have been received from the affected TorreyPines stockholders. Once you have received notice from your broker that they will be householding communications to your address, householding will continue until you notify your broker or TorreyPines that you no longer wish to participate in householding. If, at any time, you no longer wish to participate in householding and would prefer to receive a separate proxy statement and annual report, you may (1) notify your broker, (2) direct your written request to: Investor Relations, TorreyPines

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Therapeutics, Inc., P.O. Box 231386 Encinitas, CA 92032-1386, or, after the merger, to: Secretary, Raptor Pharmaceuticals Corp., 9 Commercial Blvd., Suite 200, Novato, CA 94949 or (3) contact TorreyPines Chief Financial Officer, Craig Johnson, at: (858) 623-5665 or, after the merger, contact Raptor's Chief Financial Officer, Kim R. Tsuchimoto, at (415) 382-1390. Upon a written or oral request to the address or telephone number above, TorreyPines will promptly deliver a separate copy of the annual report and proxy statement to a TorreyPines stockholder at a shared address to which a single copy of the documents was delivered. TorreyPines stockholders who currently receive multiple copies of the proxy statement at their address and would like to request householding of their communications should contact their broker.

Householding of Proxy Materials for Raptor Stockholders

This year, a number of brokers with account holders who are Raptor stockholders will be householding Raptor's proxy materials. A single copy of this joint proxy statement/prospectus will be delivered to multiple Raptor stockholders sharing an address unless contrary instructions have been received from the affected Raptor stockholders. Once you have received notice from your broker that it will be householding communications to your address, householding will continue until you are notified otherwise or until you notify your broker or Raptor that you no longer wish to participate in householding. If, at any time, you no longer wish to participate in householding and would prefer to receive a separate proxy statement and annual report in the future, you may (1) notify your broker, (2) direct your written request to: Secretary, Raptor Pharmaceuticals Corp., 9 Commercial Blvd., Suite 200, Novato, CA 94949, or (3) contact Raptor's Chief Financial Officer, Kim R. Tsuchimoto, at (415) 382-1390. Upon a written or oral request to the address or telephone number above, Raptor will promptly deliver a separate copy of the annual report and proxy statement to a Raptor stockholder at a shared address to which a single copy of the documents was delivered. Raptor stockholders who currently receive multiple copies of the proxy statement at their address and would like to request householding of their communications should contact their broker.

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TorreyPines Therapeutics, Inc.

Consolidated Financial Statements

Years Ended December 31, 2008, 2007 and 2006 and

Three and Six Months Ended June 30, 2009 and 2008 (unaudited)

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Board of Directors and Stockholders

TorreyPines Therapeutics, Inc.

We have audited the accompanying consolidated balance sheets of TorreyPines Therapeutics, Inc. as of December 31, 2008 and 2007, and the related consolidated statements of operations, stockholders' equity, and cash flows for each of the three years in the period ended December 31, 2008. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. We were not engaged to perform an audit of the Company's internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the consolidated financial position of TorreyPines Therapeutics, Inc. at December 31, 2008 and 2007, and the consolidated results of its operations and its cash flows for each of the three years in the period ended December 31, 2008, in conformity with U.S. generally accepted accounting principles.

The accompanying financial statements have been prepared assuming that TorreyPines Therapeutics, Inc. will continue as a going concern. As more fully described in Note 1, the Company's existing working capital is not sufficient to meet its cash requirements to fund planned operating expenses and working capital requirements through December 31, 2009 without additional sources of cash. This condition raises substantial doubt about the Company's ability to continue as a going concern. Management's plans in regard to these matters also are described in Note 1. The most recent year financial statements do not include any adjustments to reflect the possible future effects on the recoverability and classification of assets or the amounts and classification of liabilities that may result from the outcome of this uncertainty.

/s/ ERNST & YOUNG LLP

San Diego, California

March 24, 2009

Table of Contents**TorreyPines Therapeutics, Inc.****Consolidated Balance Sheets**

(in thousands, except share and per share data)

| | December 31, | |
|---|------------------|------------------|
| | 2008 | 2007 |
| Assets | | |
| Current assets | | |
| Cash and cash equivalents | \$ 10,864 | \$ 32,500 |
| Prepaid expenses and other current assets | 187 | 835 |
| Total current assets | 11,051 | 33,335 |
| Property and equipment, net | 40 | 774 |
| Purchased patents, net | | 3,515 |
| Investment in OXIS International, Inc. | | 979 |
| Other assets | 39 | 49 |
| Total assets | \$ 11,130 | \$ 38,652 |
| Liabilities and stockholders equity | | |
| Current liabilities | | |
| Accounts payable and accrued liabilities | \$ 3,865 | \$ 5,462 |
| Long-term debt, current portion | 1,440 | 3,574 |
| Total current liabilities | 5,305 | 9,036 |
| Long-term debt, net of current portion | 2,112 | 954 |
| Deferred revenue | | 2,183 |
| Deferred rent | | 19 |
| Total liabilities | 7,417 | 12,192 |
| Commitments | | |
| Stockholders equity | | |
| Preferred stock, \$0.001 par value, 15,000,000 shares authorized, 0 shares outstanding at December 31, 2008 and 2007, respectively | | |
| Common stock, \$0.001 par value, 150,000,000 shares authorized, 15,974,058 and 15,738,496 shares issued and outstanding at December 31, 2008 and 2007, respectively | 16 | 16 |
| Additional paid-in capital | 122,883 | 122,359 |
| Accumulated other comprehensive income | | 486 |
| Accumulated deficit | (119,186) | (96,401) |
| Total stockholders equity | 3,713 | 26,460 |
| Total liabilities and stockholders equity | \$ 11,130 | \$ 38,652 |

See accompanying notes.

Table of Contents**TorreyPines Therapeutics, Inc.****Consolidated Statements of Operations**

(in thousands, except share and per share data)

| | Years Ended December 31, | | |
|---|--------------------------|---------------|---------------|
| | 2008 | 2007 | 2006 |
| Revenue | | | |
| License and option fees | \$ 2,283 | \$ 6,800 | \$ 6,800 |
| Research funding | 2,288 | 3,050 | 3,050 |
| Other revenue | 1,500 | | |
| Total revenue | 6,071 | 9,850 | 9,850 |
| Operating expenses | | | |
| Research and development | 18,949 | 27,977 | 22,353 |
| General and administrative | 5,801 | 5,643 | 3,971 |
| Loss on impairment of purchased patents | 3,074 | | |
| Purchased in-process research and development | | | 8,328 |
| Total operating expenses | 27,824 | 33,620 | 34,652 |
| Loss from operations | (21,753) | (23,770) | (24,802) |
| Other income (expense) | | | |
| Interest income | 453 | 2,069 | 1,559 |
| Interest expense | (376) | (817) | (994) |
| Other income (expense), net | (1,109) | (851) | (1,140) |
| Total other income (expense) | (1,032) | 401 | (575) |
| Net loss | \$ (22,785) | \$ (23,369) | \$ (25,377) |
| Basic and diluted net loss per share | \$ (1.45) | \$ (1.49) | \$ (8.18) |
| Weighted average shares used in the computation of basic and diluted net loss per share | 15,748,967 | 15,717,984 | 3,100,852 |

See accompanying notes.

Table of Contents**TorreyPines Therapeutics, Inc.****Consolidated Statements of Stockholders Equity (Deficit)**

(in thousands, except share and per share data)

| | Common Stock | | Additional Paid-In Capital | Accumulated Other Comprehensive Income (Loss) | Accumulated Deficit | Total Stockholders (Deficit) Equity |
|---|--------------|--------|----------------------------------|---|------------------------|---|
| | Shares | Amount | | | | |
| Balance at December 31, 2005 | 535,311 | \$ 1 | \$ 719 | \$ (211) | \$ (58,850) | \$ (58,341) |
| Issuance of common stock for exercise of options | 329,965 | | 331 | | | 331 |
| Issuance of common stock for exercise of warrants | 143,845 | | 9 | | | 9 |
| Dividends accrued on redeemable convertible preferred stock | | | | | (3,371) | (3,371) |
| Accrete redeemable convertible preferred stock to redemption value | | | | | (205) | (205) |
| Warrant issued in conjunction with debt | | | 213 | | | 213 |
| Stock-based compensation under SFAS No. 123R | | | 139 | | | 139 |
| Additional accretion to redemption value upon conversion of redeemable convertible preferred stock | | | | | (342) | (342) |
| Reversal of redeemable convertible preferred stock dividends upon conversion to common stock | | | | | 13,958 | 13,958 |
| Redeemable convertible preferred stock converted to common stock | 7,958,059 | 8 | 67,137 | | 1,155 | 68,300 |
| Effect of Merger | 6,709,784 | 7 | 53,444 | | | 53,451 |
| Issuance of warrants in connection with Merger | | | (4,575) | | | (4,575) |
| Net loss | | | | | (25,377) | (25,377) |
| Foreign currency translation adjustments | | | | 379 | | 379 |
| Comprehensive loss | | | | | | (24,998) |
| Balance at December 31, 2006 | 15,676,964 | \$ 16 | \$ 117,417 | \$ 168 | \$ (73,032) | \$ 44,569 |
| Issuance of common stock for exercise of options | 61,532 | | 50 | | | 50 |
| Stock-based compensation under SFAS No. 123R | | | 970 | | | 970 |
| Reclassification of fair value of warrants from current liabilities to Additional paid-in capital upon receipt of warrant clarification letters | | | 3,922 | | | 3,922 |
| Net loss | | | | | (23,369) | (23,369) |
| Foreign currency translation adjustments | | | | 318 | | 318 |
| Comprehensive loss | | | | | | (23,051) |
| Balance at December 31, 2007 | 15,738,496 | \$ 16 | \$ 122,359 | \$ 486 | \$ (96,401) | \$ 26,460 |
| Issuance of common stock for exercise of options | 15,562 | | 19 | | | 19 |
| Issuance of common stock under the Employee Stock Purchase Program | 20,000 | | 3 | | | 3 |
| Stock-based compensation under SFAS No. 123R | | | 404 | | | 404 |
| Warrant issued in conjunction with debt | | | 58 | | | 58 |

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|--|------------|-------|------------|-------|--------------|----|-----------------|
| Common stock issued to Eli Lilly | 200,000 | | 40 | | | | 40 |
| Net loss | | | | | (22,785) | | (22,785) |
| Foreign currency translation adjustments | | | | (486) | | | (486) |
| Comprehensive loss | | | | | | | (23,271) |
| Balance at December 31, 2008 | 15,974,058 | \$ 16 | \$ 122,883 | \$ | \$ (119,186) | \$ | 3,713 |

See accompanying notes.

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Table of Contents**TorreyPines Therapeutics, Inc.****Consolidated Statements of Cash Flows**

(in thousands)

| | Years Ended December 31, | | |
|---|--------------------------|-----------------|-----------------|
| | 2008 | 2007 | 2006 |
| Operating activities | | | |
| Net loss | \$ (22,785) | \$ (23,369) | \$ (25,377) |
| Adjustments to reconcile net loss to net cash used in operating activities: | | | |
| Purchased in-process research and development | | | 8,328 |
| Depreciation | 236 | 369 | 639 |
| Amortization of purchased patents | 391 | 391 | 95 |
| Amortization of debt discount and deferred charges | 79 | 132 | 114 |
| Stock-based compensation | 404 | 970 | 139 |
| Common stock issued to Eli Lilly, Inc. | 40 | | |
| Deferred revenue | (2,183) | | (6,800) |
| Deferred rent and other | (19) | 7 | 15 |
| Loss on impairment of property and equipment | 154 | | |
| Loss on extinguishment of debt | 105 | | |
| Decrease in fair value of investment in OXIS International, Inc. | 559 | | |
| Loss on sale of investment in OXIS International, Inc. | 377 | | |
| Impairment of purchased patents | 3,124 | | |
| Impairment of equity investment in OXIS International, Inc. | | 1,881 | |
| Equity in (income) loss of OXIS International, Inc. | | (141) | 916 |
| Gain on currency translation | (486) | | |
| (Increase) decrease in warrant valuation | | (892) | 240 |
| Changes in operating assets and liabilities: | | | |
| Prepaid expenses and other current assets | 648 | (247) | 208 |
| Other assets | 49 | | 330 |
| Accounts payable and accrued liabilities | (1,597) | 1,205 | (5,694) |
| Net cash used in operating activities | (20,904) | (19,694) | (26,847) |
| Investing activities | | | |
| Proceeds from sale of investment in OXIS International, Inc. | 42 | | |
| Proceeds from sale of investments obtained in the Merger | | | 45,300 |
| Cash paid for Merger transaction costs, net of cash received | | | (1,629) |
| Proceeds from the sale of property and equipment | 364 | | |
| Purchases of property and equipment | (19) | (351) | (134) |
| Net cash provided by (used in) investing activities | 387 | (351) | 43,537 |
| Financing activities | | | |
| Issuance of common stock upon exercise of options and warrants | 22 | 50 | 340 |
| Debt issuance costs | (48) | | |
| Issuance of redeemable convertible preferred stock, net | | | 6,322 |
| Proceeds from long-term debt | 3,600 | | 5,000 |
| Payments on long-term debt | (4,693) | (3,201) | (2,106) |
| Net cash provided by (used in) financing activities | (1,119) | (3,151) | 9,556 |
| Effect of exchange rate changes on cash | | 313 | 380 |

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| | | | |
|---|-----------|-----------|-----------|
| Net increase (decrease) in cash and cash equivalents | (21,636) | (22,883) | 26,626 |
| Cash and cash equivalents at beginning of year | 32,500 | 55,383 | 28,757 |
| Cash and cash equivalents at end of year | \$ 10,864 | \$ 32,500 | \$ 55,383 |
| Supplemental disclosure of cash flow information | | | |
| Cash paid for interest | \$ 297 | \$ 686 | \$ 880 |
| Warrant issued in conjunction with debt | \$ 58 | \$ | \$ 213 |
| Noncash purchases of property and equipment | \$ | \$ | \$ 3 |

See accompanying notes.

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TorreyPines Therapeutics, Inc.

Notes to Consolidated Financial Statements

December 31, 2008

1. Organization and Summary of Significant Accounting Policies

Organization and Business

TorreyPines Therapeutics, Inc. is a biopharmaceutical company committed to providing patients with better alternatives to existing therapies through the development and commercialization of small molecule compounds. Our goal is to develop versatile product candidates each capable of treating a number of acute and chronic diseases and disorders such as migraine, acute and chronic pain, and xerostomia. TorreyPines is a Delaware corporation and operates in one business segment.

Prior to October 3, 2006 the name of the Company was Axonyx Inc. (Axonyx). On October 3, 2006, Axonyx completed a merger with TorreyPines Therapeutics, Inc. pursuant to which a wholly-owned subsidiary of Axonyx merged with and into TorreyPines Therapeutics, Inc. (the Merger). TorreyPines Therapeutics, Inc. was the surviving entity in the Merger, and became a wholly owned subsidiary of Axonyx. TorreyPines Therapeutics, Inc. changed its name to TPTX, Inc., and Axonyx changed its name to TorreyPines Therapeutics, Inc. (TorreyPines). The Merger was accounted for as a reverse acquisition. These financial statements reflect the historical results of TPTX, Inc. prior to the Merger and that of the combined company following the Merger, and do not include the historical results of Axonyx prior to the completion of the Merger. All share and per share disclosures have been retroactively adjusted to reflect the exchange of shares in the Merger, and the 8-for-1 reverse split of our common stock on October 3, 2006. All references to TorreyPines, we, us or our mean TorreyPines Therapeutics, Inc. and its subsidiaries, except where it is made clear that the term means only the parent company.

We have incurred net losses of \$22.8 million, \$23.4 million and \$25.4 million for the years ended December 31, 2008, 2007 and 2006, respectively. Since inception, and through December 31, 2008, we have an accumulated deficit of \$119.2 million. Based on our operating plan, our existing working capital is not sufficient to meet our cash requirements to fund our planned operating expenses and working capital requirements through December 31, 2009 without additional sources of cash.

These conditions raise substantial doubt about our ability to continue as a going concern. The accompanying financial statements have been prepared assuming that we will continue as a going concern. This basis of accounting contemplates the recovery of our assets and the satisfaction of liabilities in the normal course of business.

Our management plans to address the expected shortfall of working capital by securing additional funding through project financing, equity financing, a development partner or the sale of assets. If we are unsuccessful in securing funding from any of these sources, we will defer, reduce or eliminate certain planned expenditures. There can be no assurance that we will be able to obtain any sources of funding.

If we cannot obtain sufficient funding in the short-term, we may be forced to significantly curtail our operations, file for bankruptcy, cease operations or liquidate and dissolve the Company. Additionally, if we do not obtain sufficient funding in the short-term, we project that we will violate the minimum cash balance covenant of our debt agreement which would cause a default under the agreement. At the time cash drops below the minimum requirement, we project we will have sufficient cash to repay the outstanding balance of the debt agreement should the lender declare the debt immediately due and payable. The consolidated financial statements do not include any adjustments relating to the recoverability and classification of recorded asset amounts and classification of liabilities that might be necessary should we be forced to take any such actions.

Table of Contents**Basis of Consolidation**

The accompanying consolidated financial statements include the accounts of TorreyPines Therapeutics, Inc., TPTX, Inc. and our wholly owned subsidiaries located in Belgium and the Netherlands. The Netherlands subsidiary was acquired in the Merger and the operations of the Netherlands subsidiary were discontinued in November 2006. The operations of the Belgium subsidiary were discontinued in December 2008. All significant intercompany accounts and transactions are eliminated in consolidation.

Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Cash and Cash Equivalents

Cash and cash equivalents consist of cash and highly liquid investments with original maturities of three months or less when purchased.

Property and Equipment

Property and equipment is stated at cost less accumulated depreciation. Depreciation is calculated using the straight-line method over the estimated useful lives of the assets. The estimated useful life for lab equipment and furniture, fixtures and office equipment is five years and the estimated useful life for computer equipment and software is three years.

Purchased Patents

Purchased patents are comprised of patents acquired in the Merger. The patents are amortized on a straight-line basis using the following lives:

| Patent | Life (years) |
|-----------------|--------------|
| Phenserine | 8 |
| Posiphen | 12 |
| Bisnorcymserine | 10 |

Amortization expense for the years ended December 31, 2008, 2007 and 2006 was \$391,000, \$391,000 and \$95,000, respectively. In December 2008 we determined that the carrying value of the purchased patents was impaired; see related discussion within this footnote under Long-Lived Assets. As a result of the impairment, the patents have a weighted average life equal to zero years.

Investment in OXIS International, Inc.

Prior to January 1, 2008, we accounted for our investment in OXIS International, Inc. (OXIS) under the equity method of accounting following Accounting Principles Bulletin No. 18. Effective January 1, 2008 we elected to apply the provisions of Statement of Financial Accounting Standards (SFAS) No. 159, *Fair Value Option for Financial Assets and Liabilities-Including an Amendment of FASB Statement No. 115*, to our investment in OXIS. This investment was sold in September 2008. See Note 4.

Fair Value of Financial Instruments

Our financial instruments, including cash, cash equivalents, accounts payable and accrued liabilities, are carried at cost which approximates fair value due to the relative short-term maturities of these instruments. Based on the borrowing rates currently available to us for debt with similar terms, we believe the fair value of the long-term debt approximates its carrying value.

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Long-Lived Assets

In accordance with SFAS No. 144, *Accounting for the Impairment or Disposal of Long-Lived Assets*, we assess the recoverability of the affected long-lived assets, including intangible assets, by determining whether the carrying value of such assets can be recovered through undiscounted future operating cash flows. If impairment is indicated, we measure the amount of such impairment by comparing the fair value to the carrying value.

In September 2008 we initiated a strategic restructuring in connection with the September 30, 2008 conclusion of our Alzheimer's disease genetics cooperation agreement with Eisai Co., Ltd. (Eisai). As part of the restructuring, we transitioned from a discovery and development company to a development-only company. We performed a recoverability test of the long-lived assets related to our discovery efforts in accordance with SFAS No. 144. The recoverability test was based on the estimated undiscounted future cash flows expected to result from the disposition of the assets that supported our discovery efforts. Based on the recoverability analysis performed, we determined that the estimated undiscounted future cash flows expected to result from the disposition of the discovery assets would not be sufficient to recover the carrying value of these assets. Accordingly, we recorded a non-cash charge for the impairment of long-lived assets of \$154,000 to write-down the carrying value of these assets to their estimated fair value. The fair value was estimated based upon sales prices of similar assets. During the fourth quarter of 2008 we sold the equipment that supported our discovery efforts for total proceeds of \$364,000. The impairment of long-lived assets was recorded as other expense in the statement of operations for the twelve months ended December 31, 2008.

In December 2008 we performed a recoverability test of our purchased patents in accordance with SFAS No. 144. The recoverability test was based on the estimated undiscounted future cash flows expected to result from anticipated milestone payments potentially due to us under agreements to out-license the development of the compounds associated with the purchased patents. Based on the recoverability analysis performed, we determined the estimated undiscounted future cash flows associated with the purchased patents would not be sufficient to recover the carrying value of these assets. As of December 31, 2008 we estimate the fair value of the purchased patents to be \$0; accordingly, we recorded a non-cash charge for the impairment of the purchased patents of \$3,124,000. During 2008 we received \$50,000 of license revenues associated with the purchased patents. These license revenues were credited against the impairment loss to arrive at a net impairment loss of \$3,074,000. The net impairment loss on the purchased patents is classified as an operating expense in the statement of operations for the twelve months ended December 31, 2008.

Revenue Recognition

We recognize revenue when all four of the following criteria are met: (i) persuasive evidence that an arrangement exists; (ii) delivery of the products and/or services has occurred; (iii) the selling price is fixed or determinable; and (iv) collectibility is reasonably assured. We follow the provisions of the Securities and Exchange Commission's Staff Accounting Bulletin (SAB) 104, *Revenue Recognition*, which sets forth guidelines in the timing of revenue recognition based upon factors such as passage of title, installation, payment and customer acceptance.

Upfront amounts received as option fees and license fees under our alliance and collaboration agreements are classified as deferred revenue and recognized as revenue over the period of service or performance if such arrangements require on-going services or performance. Amounts received for milestones will be recognized upon achievement of the milestone, unless the amounts received are creditable against royalties or we have on-going performance obligations. Royalty revenue will be recognized upon sale of the related products, provided the royalty amounts are fixed and determinable, and collection of the related receivable is probable. Any amounts received prior to satisfying the revenue recognition criteria will be recorded as deferred revenue in the accompanying balance sheets.

Research and Development

Research and development costs are expensed as incurred.

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Comprehensive Income or Loss

SFAS No. 130, *Reporting Comprehensive Income*, requires that all components of comprehensive income, including net income or loss and foreign currency translation adjustments, be reported in the financial statements in the period in which they are recognized. Comprehensive income or loss is defined as the change in equity during a period from transactions and other events and circumstances from non-owner sources.

Stock-Based Compensation

Effective January 1, 2006, we adopted SFAS No. 123 (revised 2004) (SFAS No.123R), *Share Based Payment*, which supersedes our previous accounting under SFAS No. 123, *Accounting for Stock-Based Compensation*. SFAS No.123R requires the recognition of compensation expense, using a fair-value based method, for costs related to all share-based payments to employees, including grants of stock options. SFAS No.123R requires companies to estimate the fair value of share-based payment awards on the date of grant using an option-pricing model. The Black-Scholes model has been used to determine the fair value for our option awards and the Monte-Carlo simulation option-pricing model has been used to determine the fair value of certain of our restricted stock unit awards. The value of the portion of the award that is ultimately expected to vest is recognized as expense over the service period in the statements of operations.

Income Taxes

We account for income taxes and the related assets and liabilities in accordance with SFAS No. 109, *Accounting for Income Taxes*. Deferred tax assets and liabilities are determined based on the difference between the financial statement and tax basis of assets and liabilities using enacted rates expected to be in effect during the year in which the differences reverse. We provide a valuation allowance against net deferred tax assets unless, based upon the available evidence, it is more likely than not that the deferred tax assets will be realized.

Foreign Currency Translation and Transactions

The functional currencies of our subsidiaries in Belgium and the Netherlands are the local currencies. The operations of the Netherlands subsidiary were closed in November 2006 and the operations of the Belgium subsidiary were closed in December 2008. Assets and liabilities of these subsidiaries are translated at the rate of exchange at the balance sheet date. Income and expense items are translated at the average rate of exchange rates in effect during the reporting period. Gains and losses resulting from foreign currency translation are included as a component of stockholders' equity (deficit) through the closure date for each subsidiary. Foreign currency transaction gains and losses are included in the results of operations. A total of \$486,000 of foreign currency translation gains that were recorded in stockholders' equity (deficit) were reclassified to other income (expense) upon the closure of the Belgium subsidiary. Realized foreign exchange transaction gains for the years ended December 31, 2008, 2007 and 2006 were \$145,000, \$1,000 and \$15,000, respectively.

Net Loss per Share

We calculate net loss per share in accordance with SFAS No. 128, *Earnings Per Share*. Net loss per share is computed on the basis of the weighted-average number of common shares outstanding during the periods presented. Loss per share assuming dilution is computed on the basis of the weighted-average number of common shares outstanding and the dilutive effect of all common stock equivalents. Net loss per share attributable to common stockholders assuming dilution for the years ended December 31, 2008, 2007 and 2006 is equal to net loss per share attributable to common stockholders since the effect of common stock equivalents outstanding during the periods, including stock options, restricted stock units and warrants, is antidilutive.

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Shares used in calculating basic and diluted net loss per common share exclude these potential common shares (in thousands):

| | Years Ended December 31, | | |
|--|---------------------------------|-------------|-------------|
| | 2008 | 2007 | 2006 |
| Antidilutive options to purchase common stock | 2,073 | 1,606 | 1,408 |
| Antidilutive warrants to purchase common stock | 2,148 | 2,410 | 2,464 |
| Antidilutive restricted stock units | 105 | 195 | 155 |
| | 4,326 | 4,211 | 4,027 |

Recently Issued Accounting Standards

In May 2008, the FASB issued SFAS No. 162, *The Hierarchy of Generally Accepted Accounting Principles*. SFAS No. 162 identifies the sources of accounting principles and the framework for selecting the principles to be used in the preparation of financial statements that are presented in conformity with GAAP in the United States (the GAAP hierarchy). SFAS No. 162 is effective 60 days following the SEC's approval of the Public Company's Oversight Board amendments to AU Section 411, *The Meaning of Present Fairly in Conformity With Generally Accepted Accounting Principles*. We do not expect the adoption of SFAS No. 162 to have a material effect on our financial statements.

In May 2008, the FASB issued FASB Staff Position (FSP) No. APB 14-1, *Accounting for Convertible Debt Instruments That May Be Settled in Cash upon Conversion (Including Partial Cash Settlement)* (FSP APB 14-1). FSP APB 14-1 requires the issuer of certain convertible debt instruments that may be settled in cash (or other assets) on conversion to separately account for the liability and equity components of the instrument. The debt would be recognized at the present value of its cash flows discounted using the Company's nonconvertible debt borrowing rate. The equity component would be recognized as the difference between the proceeds from the issuance of the note and the fair value of the liability. The FSP also requires an accretion of the resultant debt discount over the expected life of the debt. The transition guidance requires retrospective application to all periods presented, and does not grandfather existing instruments. The effective date of FSP APB 14-1 is for financial statements issued for fiscal years beginning after December 15, 2008. We do not expect the adoption of FSP APB 14-1 to have a material effect on our financial statements.

In June 2008, the FASB ratified Emerging Issues Task Force (EITF) EITF Issue No. 07-5, *Determining Whether an Instrument (or an Embedded Feature) is Indexed to an Entity's Own Stock* (EITF 07-5). EITF 07-5 provides that we should use a two-step approach to evaluate whether an equity-linked financial instrument (or embedded feature) is indexed to our own stock, including evaluating the instrument's contingent exercise and settlement provisions. EITF 07-5 is effective for financial statements issued for fiscal years beginning after December 15, 2008, and interim periods within those fiscal years. Early application is not permitted. We do not expect the adoption of EITF 07-5 to have a material effect on our financial statements.

Adoption of New Accounting Standards

On January 1, 2008 we adopted the provisions of SFAS No. 157, Fair Value Measurement and the provisions of SFAS No. 159, *The Fair Value Option for Financial Assets and Financial Liabilities Including an Amendment of FASB Statement No. 115*. This standard permits an entity to choose to measure many financial instruments and certain other items at fair value with any gains or losses for the period recorded in the statement of income. We elected to apply the provisions of SFAS No. 159 to our investment in OXIS. See Note 4 for further information.

On January 1, 2008 we adopted the provisions of EITF Issue No. 07-3, *Accounting for Nonrefundable Advance Payments for Goods or Services to be Used in Future Research and Development Activities*. EITF Issue No. 07-3 requires companies to defer and capitalize prepaid, nonrefundable research and development payments to third parties over the period that the research and development activities are performed or the services are

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provided, subject to an assessment of recoverability. The adoption of EITF Issue No. 07-3 did not have a material impact on our financial statements.

On January 1, 2008 we adopted EITF Issue No. 07-1, *Accounting for Collaborative Arrangements Related to the Development and Commercialization of Intellectual Property*. Companies may enter into arrangements with other companies to jointly develop, manufacture, distribute, and market a product. Often the activities associated with these arrangements are conducted by the collaborators without the creation of a separate legal entity (that is, the arrangement is operated as a virtual joint venture). The arrangements generally provide that the collaborators will share, based on contractually defined calculations, the profits or losses from the associated activities. Periodically, the collaborators share financial information related to product revenues generated (if any) and costs incurred that may trigger a sharing payment for the combined profits or losses. The consensus requires collaborators in such an arrangement to present the result of activities for which they act as the principal on a gross basis and report any payments received from (made to) other collaborators based on other applicable GAAP or, in the absence of other applicable GAAP, based on analogy to authoritative accounting literature or a reasonable, rational, and consistently applied accounting policy election. As our collaborative agreements do not incorporate such revenue- and cost-sharing arrangements, the adoption of EITF Issue No. 07-1 did not have an impact on our financial statements.

2. Merger

As described in Note 1, we completed the Merger on October 3, 2006. Pursuant to the Merger, stockholders of TPTX, Inc. exchanged their shares of TPTX, Inc. stock for a total of approximately 9.0 million shares of TorreyPines common stock and a total of 1.5 million warrants to purchase TorreyPines common stock. Immediately following the Merger, approximately 58% of the fully-diluted shares of TorreyPines common stock were owned by former stockholders of TPTX, Inc. According to SFAS No. 141, *Business Combinations*, TPTX, Inc. was the acquiring entity for accounting purposes, and the Merger was accounted for as a reverse acquisition.

The intangible assets acquired in the Merger were purchased in-process research and development and purchased patents. These intangible assets were valued with the assistance of independent valuation experts, using the income approach. The value assigned to purchased in-process research and development is comprised of the following two projects, both related to the potential treatment of Alzheimer's disease: Phenserine valued at \$3.0 million and Posiphen valued at \$5.3 million. The purchased in-process research and development was expensed upon acquisition because the projects had not reached technological feasibility and the projects did not have a future alternative use. The value assigned to purchased patents was comprised of the following patents: Phenserine valued at \$1.3 million, Posiphen valued at \$2.5 million and bisnorcymserine valued at \$0.2 million. The purchased patents were capitalized upon acquisition because they had future alternative uses for the potential treatment of diseases and disorders other than Alzheimer's disease.

3. Balance Sheet Account Details

Prepaid expenses and other current assets consist of the following (in thousands):

| | December 31, | |
|-----------------------|---------------------|---------------|
| | 2008 | 2007 |
| Prepaid expenses | \$ 95 | \$ 746 |
| Non trade receivables | 43 | 81 |
| Deposits | 49 | 8 |
| | \$ 187 | \$ 835 |

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Property and equipment consist of the following (in thousands):

| | December 31, | |
|---|--------------|----------|
| | 2008 | 2007 |
| Lab equipment | \$ 27 | \$ 3,808 |
| Computer equipment and software | 283 | 782 |
| Furniture and fixtures and office equipment | 271 | 363 |
| | 581 | 4,953 |
| Less accumulated depreciation | (541) | (4,179) |
| | \$ 40 | \$ 774 |

Purchased patents consist of the following (in thousands):

| | December 31, | |
|-------------------------------|--------------|----------|
| | 2008 | 2007 |
| Purchased patents | \$ | \$ 4,000 |
| Less accumulated amortization | | (485) |
| | \$ | \$ 3,515 |

As discussed in Note 1, we determined the carrying value of the purchased patents was impaired as of December 31, 2008. Accordingly, we recorded a charge for the impairment of the purchased patents of \$3,074,000.

Accounts payable and accrued liabilities consist of the following (in thousands):

| | December 31, | |
|------------------|--------------|----------|
| | 2008 | 2007 |
| Accounts payable | \$ 2,410 | \$ 2,543 |
| Accrued benefits | 166 | 891 |
| Accrued other | 1,289 | 2,028 |
| | \$ 3,865 | \$ 5,462 |

4. Investment in OXIS

As indicated in Note 1, effective January 1, 2008, we elected to apply the fair value option under the provisions of SFAS No. 159 to our investment in OXIS. Prior to this election, we accounted for our investment in OXIS under the equity method of accounting following Accounting Principles Bulletin No. 18. We believe fair value provides a more objective measurement of the value of this investment than the equity method of accounting. The investment in OXIS is a Level 1 asset within the fair value hierarchy established by SFAS No. 157 because the investment has a quoted price in an active market, the Over-The-Counter Bulletin Board.

As of December 31, 2007 our investment in OXIS was carried at fair value because we determined that an other-than-temporary impairment of value had occurred. As such, there was no cumulative-effect adjustment to the opening balance of retained earnings as a result of our electing to apply the fair value option for our investment in OXIS.

In September 2008 we sold our entire investment in OXIS common stock. As of the date of the sale, the quoted price of OXIS common stock on the Over-The-Counter Bulletin Board was \$0.03. The total fair value of the investment in OXIS at the time of the sale was \$419,000. We

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received proceeds from the sale of the investment in OXIS of \$42,000, resulting in a loss on the sale of \$377,000. The loss on the sale of the investment in OXIS is included in other expense in the statement of operations. For the year ended December 31, 2008, the

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total decline in the fair value of the investment in OXIS was \$559,000 and was recorded in the statement of operations in other expense. The adoption of SFAS No. 159 for our investment in OXIS has no effect on our deferred tax assets and liabilities.

5. Significant Agreements

Eisai Co., Ltd.

In February 2005, we signed a collaboration agreement with Eisai Co., Ltd. (Eisai). Under this agreement, Eisai had an exclusive right of first negotiation and refusal for validated compounds discovered through the research. In exchange for these rights, we have received \$15.0 million under the agreement. This collaboration agreement expired in February 2008.

In October 2005, we signed a collaboration agreement with Eisai. Under this agreement, Eisai had exclusive rights of first negotiation and refusal for gene targets discovered and validated through the research. In exchange for these rights, we received \$14.6 million under the agreement. This agreement expired in September 2008. In November 2008 we sold the genetics research program to Eisai for \$1.5 million and recorded the amount as Other revenue.

The upfront payments for all agreements were recognized as revenue on a straight-line basis over the term of each agreement. Revenue associated with the full-time employees we committed to the project was recognized as research efforts were expended.

We recognized revenue of \$6.1 million, \$9.9 million and \$9.9 million for each year ended December 31, 2008, 2007 and 2006, respectively and have deferred revenues related to option fees and research funding received but not earned of \$0 and \$2.2 million as of December 31, 2008 and 2007, respectively.

Eli Lilly and Company

In April 2003, we signed a license agreement with Eli Lilly and Company (Lilly). Under the agreement, we paid Lilly a \$6.0 million license payment in 2003. We are also subject to certain milestone and royalty payments as specified in the agreement. During the twelve months ended December 31, 2007, we expensed \$1.0 million in connection with milestones specified in the agreement. During 2008 we issued 200,000 shares of common stock to Lilly in exchange for a reduction in the royalty rates and the timing of milestone payments under the agreement.

Life Science Research Israel, Ltd.

In May 2004, we entered into a research and license agreement with Life Science Research Israel, Ltd. (LSRI). Under the agreement, we were required to make research funding payments to LSRI totaling \$800,000 over a two-year period. Through December 31, 2006, we had made payments totaling \$800,000. We did not make any research funding payments in 2007 or 2008. We are also subject to certain milestone and royalty payments as specified in the agreement. Through December 31, 2006 we had made payments totaling \$2.2 million. We did not make any milestone payments in 2007 or 2008.

Table of Contents**6. Long-Term Debt**

The notes payable and unamortized discount balances as of December 31, 2008 and 2007 are shown below (in thousands):

| | December 31, | |
|---|--------------|------------------------|
| | 2008 | 2007 |
| Notes payable, bearing an interest rate of 11.39%, due March 2009 | \$ | \$ 4,692 |
| Notes payable, bearing an interest rate of prime plus 1% with interest-only payments through December 2008, due June 2011 | | 3,600 |
| Total notes payable | | 3,600 4,692 |
| Less unamortized discount | | (48) (164) |
| Total long-term debt | | 3,552 4,528 |
| Less current portion | | (1,440) (3,574) |
| Non-current portion | | \$ 2,112 \$ 954 |

In 2005 we entered into two notes that allowed us to borrow up to \$10.0 million (the 2005 Debt). In 2005 we borrowed an initial \$5.0 million under these notes and in 2006 we borrowed the remaining \$5.0 million. The notes were payable in monthly installments of principal and interest. In June 2008, we repaid the outstanding balance on the 2005 Debt. The total payoff of the 2005 Debt was \$3.0 million and included early payoff fees of \$60,000. The 2005 Debt had an unamortized debt discount as of the date of payoff of \$105,000. The payoff of the 2005 Debt was accounted for as a debt extinguishment, therefore the unamortized debt discount and early payoff fees were recorded as a loss on the early extinguishment of debt on the statement of operations.

In June 2008 we entered into a new note agreement with a different financial institution to borrow \$3.6 million with an annual interest rate of prime plus 1% (4.25% at December 31, 2008). The note has a three year term and is payable in 30 equal monthly installments of principal and interest, with interest-only payments payable during the period July through December 2008 and principal and interest payments beginning in January 2009. The note is collateralized by a security interest in substantially all of our assets, including our right to payments that may arise from the sale, license or other disposition of our intellectual property and to the underlying intellectual property only to the extent necessary to enforce the security interest in such payments. In connection with the note agreement, we incurred debt issuance costs of \$48,000 which were recorded as a deferred charge and classified as other assets on the balance sheet. The debt issuance costs are being amortized as a component of interest expense over the term of the loan. The aggregate unamortized debt issuance costs as of December 31, 2008 were \$39,000.

In connection with this new note agreement, we issued a warrant to the lender to purchase 78,832 shares of our common stock at an exercise price of \$1.37 per share. The warrant was valued using the Black-Scholes model assuming a risk-free interest rate of 3.5%, a dividend yield of 0%, expected volatility of 63% and a contractual life of the warrants of five years. The fair value of the warrant was \$58,000 and was recorded as a debt discount. The debt discount is being amortized as additional interest expense over the term of the loan. The aggregate unamortized debt discount as of December 31, 2008 was \$48,000.

Pursuant to the terms of the agreement, we are required to maintain a cash balance with the lender's bank of at least \$5.4 million. Additionally, we are subject to other financial and non-financial covenants, including a Material Adverse Effect clause. The Material Adverse Effect clause permits the holder of the note to call the balance in the event of a circumstance that could have a Material Adverse Effect. A Material Adverse Effect is defined as any circumstance that has a material adverse effect on (i) our business operations or condition (financial or otherwise), (ii) our ability to repay the note or otherwise perform our obligations under the agreement, or (iii) our interest in, or the value, perfection or priority of the lender's security interest in the collateral. As of December 31, 2008 no Material Adverse Effect circumstances have occurred and we are in

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compliance with all covenants. As discussed in Note 1, we are projecting that our cash balance will decrease below the \$5.4 million requirement in 2009 should we not be successful in securing additional cash sources in the near-term. At the time cash drops below \$5.4 million, management expects to have sufficient cash on hand to repay the amount outstanding under the agreement should the bank call the balance as a result of that covenant violation. In accordance with EITF 86-30, *Classification of Obligations When a Violation Is Waived by the Creditor*, the principal amount outstanding under the note agreement due beyond December 31, 2009 has been classified as non-current.

Annual debt maturities at December 31, 2008, are as follows (in thousands):

| | |
|---------------------|----------|
| 2009 | \$ 1,440 |
| 2010 | 1,440 |
| 2011 | 720 |
| 2012 and thereafter | |
| | \$ 3,600 |

7. Commitments

We lease our office facilities under a noncancelable operating lease which expires in 2009. The lease requires us to pay for all maintenance, insurance and property taxes. Rent expense for the years ended December 31, 2008, 2007 and 2006, was \$614,000, \$612,000 and \$666,000, respectively. There were no outstanding purchase commitments in existence as of December 31, 2008.

Future minimum payments of all operating leases are as follows at December 31, 2008 (in thousands):

| | |
|------------------------------|--------|
| 2009 | \$ 210 |
| 2010 and thereafter | |
| Total minimum lease payments | \$ 210 |

8. Redeemable Convertible Preferred Stock

Beginning in 2000 and continuing until 2006, we issued redeemable convertible preferred stock which was convertible at the option of the holder on a one-for-one basis into shares of common stock. The holder of each share of redeemable convertible preferred stock was entitled to one vote for each share of common stock into which it would have converted.

We increased the carrying amount of the redeemable convertible preferred stock by periodic accretions related to offering costs and the fair value of the warrants and the related beneficial conversion feature, so that the carrying amount would have equaled the minimum redemption value on the earliest redemption date. Increases in the carrying amount of the redeemable convertible preferred stock were recorded as increases in our accumulated deficit.

Holders of the redeemable convertible preferred stock had parity with holders of common stock on an as-if converted basis for all dividends declared by the Board of Directors. Holders of the redeemable convertible preferred stock were entitled to cash dividends, which accrued at the rate of 6% of the applicable original issue price per annum, compounded annually. The dividends were cumulative and payable when and if declared by the Board of Directors.

In the event of liquidation, the holders of the redeemable convertible preferred stock would have received a liquidation preference equal to the original issuance price plus accrued but unpaid dividends. The liquidation preference had priority over all distributions to common stockholders. After payment of the liquidation

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preference, all remaining assets from liquidation, if any, were to be distributed to the holders of the redeemable convertible preferred stock and the common stock according to the number of shares held.

On October 3, 2006, pursuant to the Merger, the outstanding shares of redeemable convertible preferred stock were exchanged for a total of 7,958,059 shares of common stock, and warrants to purchase 1,500,000 shares of common stock. On October 3, 2006, the carrying amount of the redeemable convertible preferred stock was increased by \$342,000, the amount of unamortized issuance costs as of that date. Upon the exchange of the redeemable convertible preferred stock for common stock we reversed a total of \$14.0 million of redeemable convertible preferred stock dividends accrued through October 3, 2006. As of December 31, 2008, there are no issued or outstanding shares of redeemable convertible preferred stock.

The following is a summary of the redeemable convertible preferred stock exchanged for common stock in the Merger:

| Description | Share Price | Total Shares |
|---|-------------|--------------|
| Series A | \$ 5.60 | 1,429,617 |
| Series B | 9.24 | 2,068,455 |
| Series C | 9.24 | 3,770,951 |
| Series C-2 | 9.24 | 689,036 |
| Total redeemable convertible preferred stock exchanged for common stock | | 7,958,059 |

9. Stockholders Equity (Deficit)**Warrants**

In connection with the Merger, certain stockholders of TPTX, Inc. received 1,500,000 warrants to purchase TorreyPines common stock at an exercise price of \$8.32. In accordance with EITF 00-19, Accounting for Derivative Financial Instruments Indexed to, and Potentially Settled in, a Company's Own Stock, we classified the warrants as a liability, and valued the warrants using the Black-Scholes model as of the date of issuance. The warrants were valued using the Black-Scholes model assuming a risk free interest rate at 4.7%, an expected dividend yield of 0%, expected volatility of 69% and an expected life of the warrants of 2.75 years. The fair value of the warrant liability is remeasured quarterly and a warrant valuation adjustment is recorded to the income statement. For the year ended December 31, 2006, we recorded \$240,000 in other expense as a warrant valuation adjustment.

During 2007, we obtained letters from the holders of these warrants clarifying the warrant agreement to allow for settlement of these warrants with the issuance of unregistered shares and to further clarify that a net cash settlement is prohibited. On each of the effective dates of these clarification letters (for which no additional consideration was given or received), the aggregate fair value of \$3,922,000 for these warrants, as calculated using the Black-Scholes model, was reclassified from current liabilities to additional paid-in capital. For the year ended December 31, 2007, we recorded \$892,000 in other income as a warrant valuation adjustment.

As discussed in Note 6, during 2008 we issued warrants to a lender in connection with a new note agreement.

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As of December 31, 2008, outstanding warrants to acquire shares of our common stock are as follows:

| Number of Shares | Exercise Price | Expiration Date |
|-----------------------------|---------------------------|------------------------|
| 370,909 | \$ 58.00 | January 8, 2009 |
| 119,227 | 68.00 | May 3, 2009 |
| 1,500,000 | 8.32 | October 3, 2009 |
| 12,992 | 9.24 | July 1, 2010 |
| 6,246 | 5.60 | December 7, 2010 |
| 78,832 | 1.37 | June 11, 2013 |
| 59,544 | 9.24 | September 26, 2015 |
| 2,147,750 | | |

The weighted average exercise price of warrants outstanding at December 31, 2008 was \$19.98 and the weighted average remaining contractual life of the warrants was 0.9 years.

Stock Options and Restricted Stock Units

Various employees, directors, and consultants have been granted options to purchase common shares under an equity incentive plans adopted in 2000 and 2006 (the 2000 Plan and the 2006 Plan). The 2000 Plan provides for the grant of up to 973,588 stock options and the 2006 Plan provides for the grant of up to 2,188,539 stock options. Options granted under both plans generally expire no later than 10 years from the date of grant (five years for a 10% stockholder). Options generally vest and become fully exercisable over a period of four years. The exercise price of incentive stock options must be equal to at least the fair market value of our common stock on the date of grant, and the exercise price of nonstatutory stock options may be no less than 85% of the fair value of our common stock on the date of grant. The exercise price of any incentive stock option granted to a 10% stockholder may be no less than 110% of the fair value of our common stock on the date of grant.

The following table summarizes our stock option activity and related information through December 31, 2008:

| | Shares | Weighted Average Exercise Price Per Share |
|---|---------------|--|
| Outstanding at December 31, 2007 | 1,605,742 | \$ 14.62 |
| Granted | 1,051,384 | 0.32 |
| Exercised | (15,562) | 1.19 |
| Canceled | (568,191) | 4.32 |
| Outstanding at December 31, 2008 | 2,073,373 | 10.30 |
| Vested and exercisable at December 31, 2008 | 990,073 | \$ 20.56 |

The weighted-average grant-date fair value of options granted during the years ended December 31, 2008, 2007 and 2006, was \$0.21, \$4.07 and \$3.45, per share, respectively.

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The following table summarizes information concerning outstanding and exercisable stock options as of December 31, 2008:

| Range of Exercise Price | Number Outstanding | Options Outstanding | Weighted-Average Contractual Life (in years) | Weighted-Average Exercise Price | Options Exercisable | Weighted-Average Exercise Price |
|-------------------------|--------------------|---------------------|--|---------------------------------|---------------------|---------------------------------|
| | | Remaining | | | Number | |
| \$0.27 \$0.27 | 1,001,384 | | 9.7 | \$ 0.27 | 83,445 | \$ 0.27 |
| \$0.62 \$1.48 | 218,776 | | 5.4 | 1.25 | 158,392 | 1.22 |
| \$2.90 \$7.62 | 239,114 | | 7.9 | 6.42 | 163,929 | 6.72 |
| \$7.77 \$23.00 | 240,510 | | 5.3 | 12.04 | 210,718 | 12.64 |
| \$23.12 \$42.16 | 236,717 | | 3.1 | 32.24 | 236,717 | 32.24 |
| \$46.00 \$64.00 | 95,747 | | 4.4 | 57.60 | 95,747 | 57.60 |
| \$65.00 \$65.00 | 9,375 | | 0.8 | 65.00 | 9,375 | 65.00 |
| \$76.00 \$76.00 | 18,750 | | 1.8 | 76.00 | 18,750 | 76.00 |
| \$88.00 \$88.00 | 500 | | 1.2 | 88.00 | 500 | 88.00 |
| \$92.00 \$92.00 | 12,500 | | 1.0 | 92.00 | 12,500 | 92.00 |
| \$0.27 \$92.00 | 2,073,373 | | 7.4 | \$ 10.30 | 990,073 | \$ 20.56 |

The following shares of common stock are reserved for future issuance at December 31, 2008:

| | |
|---|-----------|
| Warrants | 2,147,750 |
| Stock options and restricted stock units: | |
| Stock options issued and outstanding | 2,073,373 |
| Restricted stock units issued and outstanding | 105,000 |
| Available for grant | 1,501,270 |
| Total common stock reserved for future issuance | 5,827,393 |

10. Stock-Based Compensation**Stock Options**

For purposes of calculating the stock-based compensation under SFAS No. 123R, we estimate the fair value of stock options using the Black-Scholes model. The Black-Scholes model incorporates various and highly sensitive assumptions including expected volatility, expected term and interest rates. In accordance with SFAS No. 123R share-based compensation expense recognized in the consolidated statement of operations for the years ended December 31, 2008, 2007 and 2006 is based on awards ultimately expected to vest and is reduced for estimated forfeitures.

The assumptions used to estimate the fair value of stock options granted to employees and directors are listed below.

| | Years Ended December 31, | | |
|--------------------------|--------------------------|-----------------|-----------------|
| | 2008 | 2007 | 2006 |
| Expected Volatility | 63% to 78% | 64% to 69% | 69% |
| Risk-Free Interest Rate | 2.41% to 3.31% | 3.88% to 4.78% | 4.55% to 5.00% |
| Forfeitures | 0.00% to 20.98% | 0.00% to 10.98% | 0.00% to 11.81% |
| Dividend Yield | | | |
| Expected Term (in years) | 5.5 to 6.1 | 6.1 | 6.1 |

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The estimated volatility reflects the application of the SEC's SAB No. 107, *Share-Based Payment*, incorporating the historical volatility of comparable companies whose share prices are publicly available. The

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weighted average expected life of options was calculated using the simplified method as prescribed by SAB No. 107. This decision was based on the lack of relevant historical data due to our limited historical experience. The risk-free interest rate assumption was based on the U.S. Treasury rates for U.S. Treasury securities with maturities similar to those of the expected term of the award being valued. The assumed dividend yield was based on our expectation of not paying dividends in the foreseeable future.

The intrinsic value of options exercised represents the difference between the market price of the stock on the date of the exercise and the exercise price multiplied by the number of options. The total intrinsic value of options exercised for the years ended December 31, 2008, 2007 and 2006 was \$5,000, \$392,000, and \$223,000, respectively. The aggregate intrinsic value represents the difference between the fair market value of our common stock as of December 31, 2008, which was \$0.27 per share, and the weighted exercise price of all in-the-money options multiplied by the number of options outstanding. As of December 31, 2008, the aggregate intrinsic value of options outstanding and exercisable was \$0. At December 31, 2008, the weighted average remaining contractual term for options vested and exercisable was 5.2 years. The total fair value of shares vested during the three years ended December 31, 2008 was \$559,000, \$299,000 and \$128,000, respectively.

Employee Stock Purchase Plan

At our 2008 Annual Meeting of Stockholders on June 19, 2008, our stockholders approved the adoption of our 2008 Employee Stock Purchase Plan (the ESPP). The ESPP qualifies under Section 423 of the Internal Revenue Service and permits substantially all employees to purchase shares of our common stock at a discount to market. Under the ESPP, employees can choose to have up to 15% of their annual compensation withheld to purchase shares of common stock, subject to certain limitations. The shares of common stock may be purchased over an offering period with a maximum duration of two years at 85% of the lower of the fair market value of the common stock on the first day of the applicable offering period or on the last day of the six-month purchase period. A total of 1,000,000 shares of common stock may be issued pursuant to the ESPP. During the year ended December 31, 2008, 20,000 shares were purchased under the ESPP at a price of \$0.16.

Restricted Stock Units

During the years ended December 31, 2008, 2007 and 2006 we granted 0, 40,000 and 155,000 restricted stock units. As of December 31, 2008 there were 105,000 restricted stock units outstanding. The restricted stock unit activity for 2008 is summarized as follows:

| | Shares | Weighted Average Grant Date Fair Value |
|---|----------|---|
| Restricted stock units outstanding at December 31, 2007 | 195,000 | \$ 3.39 |
| Granted | | |
| Vested | | |
| Canceled | (90,000) | 3.14 |
| Restricted stock units outstanding at December 31, 2008 | 105,000 | \$ 3.60 |

Of the restricted stock units awarded during the year ended December 31, 2007, 25,000 units contained a performance condition which was not met nor was probable during the year ended December 31, 2007, therefore no expense was recorded during the twelve months ended December 31, 2007 for these units. During the year ended December 31, 2008 the performance condition was met and expense of \$8,000 was recorded for the units. The remaining 15,000 restricted stock units awarded during the year ended December 31, 2007 and all of the restricted stock units awarded during the year ended December 31, 2006 contained a market price condition and were valued using a Monte Carlo simulation option-pricing model. The weighted-average grant-date fair value of restricted stock units granted during the years ended December 31, 2008, 2007 and 2006 was \$0, \$4.36 and \$3.14.

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The assumptions used to value restricted stock units for the three years ended December 31, 2008 were as follows:

| | Years Ended December 31, | | |
|--------------------------|--------------------------|------|--------------|
| | 2008 | 2007 | 2006 |
| Expected Volatility | | 64% | 59% to 75% |
| Risk-Free Interest Rate | | 3.1% | 4.7% to 5.1% |
| Dividend Yield | | | |
| Expected Term (in years) | | 1.3 | 2.3 |

We recognized \$403,000 in total stock-based compensation expense for our share-based awards during the twelve-month period ended December 31, 2008, of which \$403,000 is related to employee and director awards valued under SFAS No. 123R. For the three years ended December 31, 2008, stock-based compensation expense was allocated among the following expense categories (amounts in thousands, except per share amounts):

| | Years Ended December 31, | | |
|---|-----------------------------|---------|---------|
| | 2008 | 2007 | 2006 |
| Research and development | \$ 56 | \$ 422 | \$ 75 |
| General and administrative | 348 | 548 | 64 |
| Stock-based compensation expense | \$ 404 | \$ 970 | \$ 139 |
| Stock-based compensation expense per share, basic and diluted | \$ 0.03 | \$ 0.06 | \$ 0.04 |

As of December 31, 2008, the total unrecognized stock-based compensation expense related to non-vested stock options was \$723,000. This expense is expected to be recognized on a straight-line basis over a weighted average period of approximately 1.8 years.

Equity instruments issued to non-employees are recorded at their fair values as determined in accordance with SFAS No. 123R and EITF 96-18, *Accounting for Equity Instruments That Are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling Goods and Services*, and are periodically revalued as the options vest and are recognized as expense over the related service period. During the years ended December 31, 2008, 2007 and 2006, we recognized \$0, \$240,000 and \$20,000 respectively, for stock options issued to non-employees.

Table of Contents**11. Income Taxes**

Significant components of our deferred tax assets as of December 31, 2008 and 2007 are shown below (amounts in thousands). A valuation allowance of \$51,361,000 has been recognized to offset the net deferred tax assets as of December 31, 2008, as realization of such assets is uncertain.

| | December 31, | |
|---|--------------|----------|
| | 2008 | 2007 |
| Deferred tax assets: | | |
| Capitalized research and development expenses | \$ 16,206 | \$ 4,823 |
| Net operating loss carryforwards | 25,967 | 30,126 |
| Research and development and manufacturers investment credits | 5,414 | 4,565 |
| Stock based compensation | 312 | 277 |
| Investment in OXIS | | 2,895 |
| Capital loss carryforwards | 3,268 | |
| Depreciation | 32 | |
| Other | 162 | 157 |
| | | |
| Total deferred tax assets | 51,361 | 42,843 |
| Deferred tax liabilities | | |
| Acquired patents | | (1,249) |
| Depreciation | | (19) |
| | | |
| Total deferred tax liabilities | | (1,268) |
| Net deferred tax assets and liabilities | 51,361 | 41,575 |
| Valuation allowance for deferred tax assets | (51,361) | (41,575) |
| | | |
| Net deferred tax assets | \$ | \$ |

Reconciliation of the statutory federal income tax to our effective tax rate for the three years ended December 31, 2008 is shown below (amounts in thousands):

| | December 31, | | |
|--|--------------|------------|------------|
| | 2008 | 2007 | 2006 |
| Tax at federal statutory rate | \$ (7,747) | \$ (7,946) | \$ (8,628) |
| State tax benefit, net of federal effect | (1,491) | (1,623) | (1,473) |
| Non deductible in-process research and development | | | 2,832 |
| Research and development credit | (462) | (253) | (734) |
| Change in valuation allowance | 9,593 | 9,874 | 7,893 |
| Non deductible warrant valuation adjustment | | (304) | 82 |
| Stock based compensation | 104 | 109 | 6 |
| Reduction of operating loss carryforward | | 139 | |
| Other | 3 | 4 | 22 |
| | | | |
| Provision for taxes | \$ | \$ | \$ |

During the year ended December 31, 2008, we recorded an increase to our valuation allowance of \$9.8 million. Of this amount, approximately \$0.2 million relates primarily to changes in deferred tax liabilities recorded in other comprehensive income.

Pursuant to Internal Revenue Code Sections 382 and 383, use of our net operating loss and tax credit carryforwards may be limited if a cumulative change in ownership of more than 50% occurs within a three-year period. We completed a study as of December 31, 2006. As of December 31, 2006, we had deferred tax assets related to net operating losses of \$24.3 million and research and tax credit carryforwards of \$4.7

million which

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are not restricted. We have not updated our study to determine if a change in control has occurred subsequent to December 31, 2006. If we have experienced a change in control subsequent to December 31, 2006 utilization of our net operating losses and tax credit carryforwards could be subject to an annual limitation. Any limitation may result in expiration of a portion of the carryforwards before utilization. Once a study is completed and any limitation known, the amounts currently presented as an uncertain tax position under FIN No. 48 may change. Any carryforwards that will expire prior to utilization as a result of such limitations will be removed from deferred tax assets with a corresponding reduction of the valuation allowance.

We have federal net operating loss carryforwards of approximately \$103.4 million of which \$37.1 million are subject to limitation under IRC Section 382 and will expire unused, the remaining federal net operating losses will begin to expire in 2020 unless previously utilized. We have California net operating loss carryforwards of approximately \$52.6 million of \$0.6 million are subject to limitation under IRC Section 382 and will expire unused, the remaining California net operating losses will begin to expire in 2012 unless previously utilized. We also have federal research credit carryforwards of approximately \$7.3 million, of which \$2.1 million are subject to limitation under IRC Section 382, the remaining federal research and development credits will begin expiring in 2020 unless previously utilized. In addition we have state research credit carryforwards of approximately \$2.2 million, which carryforward indefinitely. We also have state manufacturers investment credit carryforwards of approximately \$103,000, which will begin expiring in 2011.

Effective January 1, 2007, we adopted the provisions of FASB Interpretation No. 48, *Accounting for Uncertainty in Income Taxes - an Interpretation of FASB Statement No. 109* (FIN 48). FIN 48 prescribes a recognition threshold and measurement attribute criteria for the financial statement recognition and measurement of tax positions taken or expected to be taken in a tax return. For those benefits to be recognized, a tax position must be more-likely-than-not to be sustained upon examination by taxing authorities. Upon implementation, we had unrecognized tax benefits of approximately \$711,000. The implementation of FIN 48 would have resulted in a charge to retained earnings of \$603,000, except that the charge was fully offset by the application of a valuation allowance.

Our policy is to recognize interest and penalties related to income tax matters in income tax expense. As of December 31, 2008, no interest or penalties associated with any unrecognized tax benefits were accrued, nor was any interest expense recognized during the year.

A rollforward of changes in our unrecognized tax benefits is shown below (in thousands):

| | December 31, | |
|--|--------------|--------|
| | 2008 | 2007 |
| Balance at beginning of year | \$ 920 | \$ 711 |
| Additions based on tax positions related to the current year | 154 | 210 |
| Additions for tax positions of prior years | 13 | |
| Reductions for tax positions of prior years | | (1) |
| Settlements | | |
| Balance at end of year | \$ 1,087 | \$ 920 |

The December 31, 2008 balance of unrecognized tax benefits of \$1.1 million, if recognized, would result in adjustments to the related deferred tax assets and valuation allowance and not affect our effective tax rate.

We are subject to taxation in the United States and various state and foreign jurisdictions. Our tax years for 2000 and forward are subject to examination by the United States and various state taxing authorities due to the carryforward of unutilized net operating losses and credits. Tax years 2004 and forward remain open to examination by foreign taxing jurisdictions. We currently are not under examination by any taxing authorities.

Table of Contents**12. Employee Benefit Plan**

Effective January 1, 2001, we adopted a defined contribution 401(k) Plan covering substantially all employees that meet certain age requirements. Employees may contribute up to 60% of their compensation per year, subject to a maximum limit by federal law. We are not required to, and have not, matched any portion of the employee contributions through December 31, 2008.

13. Related-Party Transactions

During the year ended December 31, 2008 there were no related party transactions. During the two years ended December 31, 2007, two directors provided consulting services to us. Combined total payments for these services were \$30,000 and \$40,000 for 2007 and 2006, respectively.

14. Selected Quarterly Data (Unaudited)

The following tables set forth certain unaudited quarterly information for each of the eight fiscal quarters in the two-year period ended December 31, 2008. This quarterly financial data has been prepared on a consistent basis with the audited financial statements and, in the opinion of management, includes all adjustments, consisting of normal recurring adjustments, necessary for a fair presentation of the information for the periods presented. Our quarterly operating results may fluctuate significantly as a result of a variety of factors and operating results for any quarter are not necessarily indicative of results for a full fiscal year or future quarters.

2008 Quarter Ended

| | March 31 | June 30 | September 30 | December 31 |
|--------------------------------------|-----------------|----------------|---------------------|--------------------|
| Total revenue | \$ 2,046 | \$ 1,212 | \$ 1,223 | \$ 1,590 |
| Operating expenses | 6,708 | 7,242 | 6,105 | 7,769 |
| Net loss | \$ (3,893) | \$ (7,450) | \$ (5,394) | \$ (6,048) |
| Basic and diluted net loss per share | \$ (0.25) | \$ (0.47) | \$ (0.34) | \$ (0.38) |

2007 Quarter Ended

| | March 31 | June 30 | September 30 | December 31 |
|--|-----------------|----------------|---------------------|--------------------|
| Total revenue | \$ 2,463 | \$ 2,463 | \$ 2,463 | \$ 2,461 |
| Operating expenses | 6,572 | 8,515 | 9,512 | 9,021 |
| Net loss attributable to common stockholders | \$ (3,281) | \$ (5,158) | \$ (6,774) | \$ (8,156) |
| Basic and diluted net loss per share attributable to common stockholders | \$ (0.21) | \$ (0.33) | \$ (0.43) | \$ (0.52) |

15. Contingencies

Several lawsuits were filed against us in February 2005 in the U.S. District Court for the Southern District of New York asserting claims under Sections 10(b) and 20(a) of the Securities Exchange Act of 1934, as amended, or the Exchange Act and Rule 10b-5 thereunder on behalf of a class of purchasers of Axonyx common stock during the period from June 26, 2003, through and including February 4, 2005, referred to as the class period. Dr. Marvin S. Hausman, M.D., a former director and our former Chief Executive Officer, and Dr. Gosse B. Bruinsma, M.D., also a former director and a former Chief Executive Officer, were also named as defendants in the lawsuits. These actions were consolidated into a single class action lawsuit in January 2006. On April 10, 2006, the class action plaintiffs filed an amended consolidated complaint. We filed our answer to that complaint on May 26, 2006. Our motion to dismiss the consolidated amended complaint was filed on May 26, 2006 and was submitted to the court for a decision in September 2006. The motion to dismiss is pending.

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The class action plaintiffs allege generally that our Phase III phenserine development program was subject to alleged errors of design and execution which resulted in the failure of the first Phase III phenserine trial to show efficacy. Plaintiffs allege the defendants' failure to disclose the alleged defects resulted in the artificial inflation of the price of our shares during the class period.

The complaint seeks unspecified damages. Management believes the claim is without merit and plans to defend the claim vigorously. We have determined that a loss in connection with this matter is possible, but not probable. Accordingly, we have not recorded any liability relating to these matters.

On February 7, 2009 a pending shareholder derivative suit in New York Supreme Court, New York County, against a current director and former directors and officers was discontinued.

16. Subsequent Event

On February 3, 2009, the Board of Directors granted a total of 800,000 stock options to purchase shares of our common stock to three members of executive management. The options were granted under the 2006 Plan, contain an exercise price of \$0.23 per share and were 100% vested on the date of grant. The options have a contractual life of ten years.

Table of Contents**TorreyPines Therapeutics, Inc.****Consolidated Balance Sheets**

(in thousands, except share and per share data)

| | June 30, 2009 (Unaudited) | December 31, 2008 |
|--|--|------------------------------|
| Assets | | |
| Current assets | | |
| Cash and cash equivalents | \$ 1,175 | \$ 10,864 |
| Prepaid expenses and other current assets | 243 | 187 |
| Total current assets | 1,418 | 11,051 |
| Property and equipment, net | | 40 |
| Other assets | | 39 |
| Total assets | \$ 1,418 | \$ 11,130 |
| Liabilities and stockholders' equity | | |
| Current liabilities | | |
| Accounts payable and accrued liabilities | \$ 149 | \$ 3,865 |
| Long-term debt, current portion | | 1,440 |
| Total current liabilities | | 5,305 |
| Long-term debt, net of current portion | | 2,112 |
| Total liabilities | 149 | 7,417 |
| Commitments and contingencies | | |
| Stockholders' equity | | |
| Preferred stock, \$0.001 par value, 15,000,000 shares authorized, 0 shares outstanding at June 30, 2009 and December 31, 2008, respectively | | |
| Common stock, \$0.001 par value, 150,000,000 shares authorized, 15,999,058 and 15,974,058 shares issued and outstanding at June 30, 2009 and December 31, 2008, respectively | 16 | 16 |
| Additional paid-in capital | 123,167 | 122,883 |
| Accumulated deficit | (121,914) | (119,186) |
| Total stockholders' equity | 1,269 | 3,713 |
| Total liabilities and stockholders' equity | \$ 1,418 | \$ 11,130 |

See accompanying notes.

Table of Contents**TorreyPines Therapeutics, Inc.****Consolidated Statements of Operations**

(in thousands, except share and per share data)

(Unaudited)

| | Three Months Ended June 30, | | Six Months Ended June 30, | |
|--|--------------------------------|----------------|------------------------------|---------------|
| | 2009 | 2008 | 2009 | 2008 |
| Revenue | | | | |
| License and option fees | \$ | 450 | \$ | \$ 1,733 |
| Research funding | | 762 | | 1,525 |
| Other revenue | 280 | | 280 | |
| Total revenue | 280 | 1,212 | 280 | 3,258 |
| Operating expenses: | | | | |
| Research and development | 61 | 5,491 | 916 | 10,751 |
| General and administrative | 742 | 1,751 | 2,010 | 3,199 |
| Total operating expenses | 803 | 7,242 | 2,926 | 13,950 |
| Loss from operations | (523) | (6,030) | (2,646) | (10,692) |
| Other income (expense) | | | | |
| Interest income | 2 | 113 | 10 | 330 |
| Interest expense | (11) | (110) | (56) | (257) |
| Other income (expense), net | (76) | (1,423) | (36) | (724) |
| Total other income (expense) | (85) | (1,420) | (82) | (651) |
| Net loss | \$ (608) | \$ (7,450) | \$ (2,728) | \$ (11,343) |
| Basic and diluted net loss per share | \$ (0.04) | \$ (0.47) | \$ (0.17) | \$ (0.72) |
| Weighted average shares used in the computation of basic and diluted net loss per share | 15,990,725 | 15,748,104 | 15,982,391 | 15,743,875 |

See accompanying notes.

Table of Contents**TorreyPines Therapeutics, Inc.****Consolidated Statements of Cash Flows**

(in thousands)

(Unaudited)

| | Six months ended June 30, | |
|---|--------------------------------------|-------------|
| | 2009 | 2008 |
| Operating activities | | |
| Net loss | \$ (2,728) | \$ (11,343) |
| Adjustments to reconcile net loss to net cash used in operating activities: | | |
| Depreciation | 18 | 149 |
| Stock-based compensation | 285 | 350 |
| Amortization of debt discount | 11 | 61 |
| Amortization of purchased patents | | 195 |
| Deferred revenue | | (1,733) |
| Gain on disposal of assets | (41) | |
| Loss on extinguishment of debt | 76 | 105 |
| Change in fair value of investment in OXIS International, Inc. | | 559 |
| Changes in operating assets and liabilities: | | |
| Prepaid expenses and other current assets | (57) | 493 |
| Other assets | | 46 |
| Accounts payable and accrued liabilities | (3,716) | (263) |
| Net cash used in operating activities | (6,152) | (11,381) |
| Investing activities | | |
| Purchases of property and equipment | | (19) |
| Proceeds from sale of property and equipment | 63 | |
| Net cash provided by/(used in) investing activities | 63 | (19) |
| Financing activities | | |
| Issuance of common stock | | 18 |
| Debt issue costs | | (48) |
| Proceeds from long-term debt | | 3,600 |
| Payments on long-term debt | (3,600) | (4,693) |
| Net cash used in financing activities | (3,600) | (1,123) |
| Effect of exchange rate changes on cash | | 208 |
| Net decrease in cash and cash equivalents | (9,689) | (12,315) |
| Cash and cash equivalents at beginning of period | 10,864 | 32,500 |
| Cash and cash equivalents at end of period | \$ 1,175 | \$ 20,185 |
| Supplemental disclosure of cash flow information | | |
| Cash paid for interest | \$ 45 | \$ 196 |
| Warrant issued in conjunction with debt | | 58 |

See accompanying notes.

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TorreyPines Therapeutics, Inc.

Notes to Consolidated Financial Statements

June 30, 2009

(Unaudited)

(1) Basis of Presentation

The accompanying unaudited consolidated financial statements of TorreyPines Therapeutics, Inc. (together with our wholly-owned subsidiaries, TPTX, Inc. and TorreyPines Therapeutics Europe NV) should be read in conjunction with the audited financial statements and notes thereto as of, and for the year ended December 31, 2008 included in our Annual Report on Form 10-K filed with the Securities and Exchange Commission (the SEC) on March 27, 2009. The accompanying financial statements have been prepared in accordance with United States generally accepted accounting principles (GAAP) and with the rules and regulations of the SEC related to a quarterly report on Form 10-Q. Accordingly, they do not include all of the information and disclosures required by GAAP for complete financial statements. In the opinion of our management, the accompanying financial statements reflect all adjustments (consisting of normal recurring adjustments) that are necessary for a fair presentation of the financial position, results of operations and cash flows for the interim periods presented. Interim results are not necessarily indicative of results for a full year. References in this report to TorreyPines, Company, we, us and our refer to TorreyPines Therapeutics, Inc. and its subsidiaries.

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and the accompanying notes. Actual results could differ from those estimates.

(2) Going Concern Considerations

On July 27, 2009 we entered into a definitive merger agreement with Raptor Pharmaceuticals Corp. (Raptor) (see Note 8).

As of June 30, 2009 our accumulated deficit was \$121.9 million. Without additional sources of cash, our existing working capital is not sufficient to meet the cash requirements necessary to fund our planned operating expenses and working capital requirements through December 31, 2009.

These conditions raise substantial doubt about our ability to continue as a going concern. The accompanying financial statements have been prepared assuming that we will continue as a going concern. This basis of accounting contemplates the recovery of our assets and the satisfaction of liabilities in the normal course of business.

Our management plans to address the expected shortfall of working capital by completing the merger with Raptor, or securing additional funding through project financing, equity financing, a development partner or sale of assets. There can be no assurance that we will complete the merger or be able to obtain any sources of funding.

If we cannot complete the merger with Raptor in a timely manner, or otherwise obtain sufficient funding in the short-term, we may be forced to file for bankruptcy, cease operations or liquidate and dissolve the Company. The consolidated financial statements do not include any adjustments relating to the recoverability and classification of recorded asset amounts and classification of liabilities that might be necessary should we be forced to take such actions.

(3) Reduction-in-Force

In an effort to conserve financial resources, on March 31, 2009 we reduced our work force to three employees. In connection with the reduction-in-force, a restructuring charge of \$191,000 was recorded in the

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three months ended March 31, 2009. The restructuring charge is included in operating expenses in the statement of operations and is comprised of \$85,000 of research and development expense and \$106,000 of general and administrative expense, and all amounts have been paid at June 30, 2009.

(4) Comprehensive Loss

Statement of Financial Account Standards (SFAS) No. 130, *Reporting Comprehensive Income*, requires that all components of comprehensive income, including net income or loss and foreign currency translation adjustments, be reported in the financial statements in the period in which they are recognized. Comprehensive income or loss is defined as the change in equity during a period from transactions and other events and circumstances from non-owner sources. Our comprehensive loss is as follows (amounts in thousands):

| | Three Months Ended June 30, | | Six Months Ended June 30, | |
|--|--------------------------------|------------|------------------------------|-------------|
| | 2009 | 2008 | 2009 | 2008 |
| Net loss | \$ (608) | \$ (7,450) | \$ (2,728) | \$ (11,343) |
| Foreign currency translation adjustments | | | | 210 |
| Comprehensive loss | \$ (608) | \$ (7,450) | \$ (2,728) | \$ (11,133) |

(5) Net Loss Per Share

We calculate net loss per share in accordance with SFAS No. 128, *Earnings Per Share*. Net loss per share is computed on the basis of the weighted-average number of shares of common stock outstanding during the periods presented. Net loss per share assuming dilution is computed on the basis of the weighted-average number of common shares outstanding and the dilutive effect of all common stock equivalents. For the three and six month periods ended June 30, 2009 and 2008, there is no difference between basic and diluted net loss per share attributable to common stockholders because the effect of common stock equivalents outstanding during the periods, including stock options, restricted stock units and warrants, is antidilutive.

(6) Note Payable

In April 2009 we repaid the outstanding balance on a note payable that we entered into during 2008. The total payoff of the note was \$3.1 million. At the time of the payoff, unamortized debt issuance costs and unamortized debt discount equaled \$34,000 and \$42,000, respectively. The debt payoff was accounted for as a debt extinguishment, therefore the unamortized debt issuance costs and debt discount were recorded as a loss on the early extinguishment of debt on the statement of operations.

(7) Commitments and Contingencies

Several lawsuits were filed against us in February 2005 in the U.S. District Court for the Southern District of New York asserting claims under Sections 10(b) and 20(a) of the Securities Exchange Act of 1934, as amended, or the Exchange Act and Rule 10b-5 thereunder on behalf of a class of purchasers of Axonyx Inc. (the predecessor legal entity to TorreyPines) common stock during the period from June 26, 2003, through and including February 4, 2005, referred to as the class period. Dr. Marvin S. Hausman, M.D., a former director and our former Chief Executive Officer, and Dr. Gosse B. Bruinsma, M.D., also a former director and our former Chief Executive Officer, were also named as defendants in the lawsuits. These actions were consolidated into a single class action lawsuit in January 2006. On April 10, 2006, the class action plaintiffs filed an amended consolidated complaint. We filed our answer to that complaint on May 26, 2006. Our motion to dismiss the consolidated amended complaint was filed on May 26, 2006 and was submitted to the court for a decision in September 2006. On March 31, 2009 the U.S. District Court for the Southern District of New York dismissed the proceedings. On April 24, 2009 an appeal was filed with the United States Court of Appeals for the Second Circuit by the class action plaintiffs.

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(8) Subsequent Event

In connection with preparation of the financial statements, and in accordance with the adoption of Statement of Financial Accounting Standards No. 165, Subsequent Events, we evaluated subsequent events after the balance sheet date of June 30, 2009 through August 11, 2009, the date of issuance of these financial statements. On July 28, 2009 we announced that we had entered into a definitive merger agreement with Raptor. Under the terms of the agreement, which were unanimously approved by the boards of directors of Raptor and TorreyPines, upon closing, Raptor will be merged with and into a wholly-owned subsidiary of TorreyPines. TorreyPines will issue, and Raptor stockholders will receive, shares of TorreyPines common stock such that Raptor stockholders will own approximately 95% and TorreyPines stockholders will own approximately 5% of the combined company. In addition, at closing, TorreyPines will implement a reverse stock split to ensure compliance with NASDAQ listing requirements; the exact size of the reverse stock split will be determined at or shortly before closing. Closing of the merger is subject to customary conditions and contingent upon a vote of approval by both TorreyPines and Raptor's stockholders at their respective meetings of stockholders, expected to take place in the fourth quarter of 2009.

In connection with the merger described herein, TorreyPines expects to file a registration statement on Form S-4, which shall include a joint proxy statement/prospectus, with the U.S. Securities Exchange Commission (SEC) and any other necessary regulatory filings. Depending on the review process of the regulatory agencies, the companies currently expect the merger to close in the fourth quarter of 2009. Upon closing the transaction, the combined company's shares are expected to trade on the NASDAQ Capital Market.

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RAPTOR PHARMACEUTICALS CORP.
CONSOLIDATED FINANCIAL STATEMENTS

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Report Of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of

Raptor Pharmaceuticals Corp.

We have audited the accompanying consolidated balance sheets of Raptor Pharmaceuticals Corp. and its subsidiaries (the Company) (a development stage enterprise) as of August 31, 2008 and 2007 and the related consolidated statements of operations, stockholders' equity and cash flows for the years ended August 31, 2008 and 2007 and the cumulative amounts from September 8, 2005 (inception) to August 31, 2008. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement. The Company is not required to have, nor were we engaged to perform an audit of the Company's internal control over financial reporting. Our audit included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the consolidated financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of Raptor Pharmaceuticals Corp. and its subsidiaries as of August 31, 2008 and 2007 and the consolidated results of their operations and cash flows for the years ended August 31, 2008 and 2007 and the cumulative amounts from September 8, 2005 (inception) to August 31, 2008 in conformity with accounting principles generally accepted in the United States of America.

The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 2 to the financial statements, the Company is in the development stage and has not generated any revenue to date. These factors raise substantial doubt about the Company's ability to continue as a going concern. Management's plans in regard to these matters are also described in Note 2. The financial statements do not include any adjustments relating to the recoverability and classification of asset carrying amounts or the amount and classification of liabilities that might result should the Company be unable to continue as a going concern.

As discussed in Notes 2 and 7 to the consolidated financial statement, on September 1, 2006 the Company changed its method of accounting for stock-based compensation as a result of adopting Statement of Financial Accounting Standard No. 123 (revised 2004), Share Based Payments applying the modified prospective method.

/s/ Burr, Pilger & Mayer LLP

San Francisco, California

October 29, 2008

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Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Consolidated Balance Sheets**

| | August 31, | |
|---|---------------|--------------|
| | 2008 | 2007 |
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 7,546,912 | \$ 2,627,072 |
| Prepaid expenses | 115,594 | 197,093 |
| Total current assets | 7,662,506 | 2,824,165 |
| Intangible assets, net | 2,663,291 | 138,125 |
| Fixed assets, net | 194,766 | 308,428 |
| Deposits | 100,207 | 20,207 |
| Total assets | \$ 10,620,770 | \$ 3,290,925 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| Liabilities | | |
| Current liabilities: | | |
| Accounts payable | \$ 565,593 | \$ 115,679 |
| Accrued liabilities | 432,434 | 201,320 |
| Deferred rent | 2,951 | 11,015 |
| Capital lease liability - current | 2,302 | 2,500 |
| Total current liabilities | 1,003,280 | 330,514 |
| Capital lease liability - long-term | | 2,302 |
| Total liabilities | 1,003,280 | 332,816 |
| Commitments and contingencies | | |
| Stockholders' equity: | | |
| Preferred stock, \$0.001 par value, 10,000,000 shares authorized, zero shares issued and outstanding | | |
| Common stock, \$0.001 par value, 100,000,000 shares authorized 60,330,047 and 32,931,166 shares issued and outstanding as at August 31, 2008 and 2007, respectively | 60,330 | 32,931 |
| Additional paid-in capital | 22,212,449 | 7,526,504 |
| Deficit accumulated during development stage | (12,655,289) | (4,601,326) |
| Total stockholders' equity | 9,617,490 | 2,958,109 |
| Total liabilities and stockholders' equity | \$ 10,620,770 | \$ 3,290,925 |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Consolidated Statements of Operations**

| | Year ended August 31, | |
|--|------------------------------|----------------|
| | 2008 | 2007 |
| Revenues: | \$ | \$ |
| Operating expenses: | | |
| General and administrative | 2,229,140 | 1,529,028 |
| Research and development | 5,558,871 | 2,246,057 |
| In-process research and development | 240,625 | |
| Total operating expenses | 8,028,636 | 3,775,085 |
| Loss from operations | (8,028,636) | (3,775,085) |
| Interest income | 77,871 | 143,760 |
| Interest expense | (103,198) | (751) |
| Net loss | \$ (8,053,963) | \$ (3,632,076) |
| Net loss per share: | | |
| Basic and diluted | \$ (0.19) | \$ (0.12) |
| Weighted average shares outstanding used to compute: | | |
| Basic and diluted | 42,439,379 | 31,497,782 |

The accompanying notes are an integral part of these financial statements.

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Raptor Pharmaceuticals Corp.

(A Development Stage Company)

Consolidated Statement of Operations

| | For the cumulative period from September 8, 2005 (inception) to August 31, 2008 |
|-------------------------------------|--|
| Revenues: | \$ |
| Operating expenses: | |
| General and administrative | 4,268,247 |
| Research and development | 8,304,166 |
| In-process research and development | 240,625 |
| Total operating expenses | 12,813,038 |
| Loss from operations | (12,813,038) |
| Interest income | 265,159 |
| Interest expense | (107,410) |
| Net loss | \$ (12,655,289) |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Consolidated Statement of Stockholders Equity****For the period from September 8, 2005 (inception) to August 31, 2006**

| | Common stock | | | Receivable from stockholders | Deficit accumulated during the development stage | Total |
|--|--------------|-----------|----------------------------------|------------------------------------|---|--------------|
| | Shares | Amount | Additional paid-in Capital | | | |
| Balance at September 8, 2005, issuance of common stock to founders at \$0.001 per share, net of retirement of common stock upon reverse merger | 6,000,000 | \$ 6,000 | \$ 4,000 | \$ (10,000) | \$ | \$ |
| Common stock issued in May 2006 at \$0.10 per share pursuant to a stock purchase agreement dated February 2006 | 1,000,000 | 1,000 | 99,000 | (100,000) | | |
| Common stock issued in May 2006 at \$0.20 per share pursuant to a stock purchase agreement dated February 2006 | 1,000,000 | 1,000 | 199,000 | | | 200,000 |
| Common stock issued on May 25, 2006 at \$0.60 per share, net of fundraising costs of \$217,534 | 8,333,333 | 8,333 | 4,774,133 | | | 4,782,466 |
| Common stock and warrants issued for a placement fee in connection with May 25, 2006 financing | 800,000 | 800 | (800) | | | |
| Common stock issued in connection with reverse merger in May 2006 | 12,500,000 | 12,500 | (12,500) | | | |
| Warrant subscribed pursuant to a consulting agreement dated September 2005 | | | 60 | | | 60 |
| Consultant stock-based compensation expense | | | 23,500 | | | 23,500 |
| Repayment of receivable from stockholders | | | | 110,000 | | 110,000 |
| Net loss | | | | | (969,250) | (969,250) |
| Balance at August 31, 2006 | 29,633,333 | \$ 29,633 | \$ 5,086,393 | \$ | \$ (969,250) | \$ 4,146,776 |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Consolidated Statement of Stockholders Equity****For the year ended August 31, 2007**

| | Common stock | | Additional paid-in capital | Deficit accumulated | Total |
|---|--------------|-----------|----------------------------------|------------------------------------|--------------|
| | Shares | Amount | | during the development stage | |
| Balance at September 1, 2006 | 29,633,333 | \$ 29,633 | \$ 5,086,393 | \$ (969,250) | \$ 4,146,776 |
| Exercise of common stock warrants | 3,283,333 | 3,283 | 1,966,717 | | 1,970,000 |
| Exercise of common stock options | 14,500 | 15 | 8,685 | | 8,700 |
| Consultant stock-based compensation expense | | | 95,731 | | 95,731 |
| Employee stock-based compensation expense | | | 368,978 | | 368,978 |
| Net loss | | | | (3,632,076) | (3,632,076) |
| Balance at August 31, 2007 | 32,931,166 | \$ 32,931 | \$ 7,526,504 | \$ (4,601,326) | \$ 2,958,109 |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Consolidated Statement of Stockholders Equity****For the year ended August 31, 2008**

| | Common stock | | Additional paid-in capital | Deficit accumulated during the development stage | Total |
|---|--------------|-----------|----------------------------------|---|--------------|
| | Shares | Amount | | | |
| Balance at September 1, 2007 | 32,931,166 | \$ 32,931 | \$ 7,526,504 | \$ (4,601,326) | \$ 2,958,109 |
| Exercise of common stock warrants | 3,208,334 | 3,208 | 1,921,792 | | 1,925,000 |
| Consultant stock-based compensation expense | 8,750 | 9 | 240,220 | | 240,229 |
| Employee stock-based compensation expense | 100,000 | 100 | 491,455 | | 491,555 |
| Issuance of common stock for loan placement fee | 200,000 | 200 | 101,800 | | 102,000 |
| Issuance of common stock for the purchase of Convivia, Inc. assets | 437,500 | 438 | 240,187 | | 240,625 |
| Issuance of common stock for the merger with Encode Pharmaceuticals, Inc. | 3,444,297 | 3,444 | 2,654,556 | | 2,658,000 |
| Issuance of common stock and warrants for the sale of units in a private placement, including placement agent warrants, net of fundraising costs of \$944,065 | 20,000,000 | 20,000 | 9,035,935 | | 9,055,935 |
| Net loss | | | | (8,053,963) | (8,053,963) |
| Balance at August 31, 2008 | 60,330,047 | \$ 60,330 | \$ 22,212,449 | \$ (12,655,289) | \$ 9,617,490 |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Consolidated Statements of Cash Flows**

| | For the year ended August 31, | |
|--|--------------------------------------|---------------------|
| | 2008 | 2007 |
| Cash flows from operating activities: | | |
| Net loss | \$ (8,053,963) | \$ (3,632,076) |
| Adjustments to reconcile net loss to net cash used in operating activities: | | |
| Employee stock-based compensation expense | 491,555 | 368,978 |
| Consultant stock-based compensation expense | 240,229 | 95,731 |
| Amortization of intangible assets | 94,834 | 7,500 |
| Depreciation of fixed assets | 126,888 | 120,530 |
| In-process research and development | 240,625 | |
| Amortization of stock issued for loan placement fee | 102,000 | |
| Capitalized acquisition costs previously expensed | 38,000 | |
| Changes in assets and liabilities: | | |
| Prepaid expenses | 81,500 | (93,838) |
| Receivables other | | 640 |
| Deposits | (80,000) | |
| Accounts payable | 449,914 | 63,611 |
| Accrued liabilities | 231,114 | 117,037 |
| Deferred rent | (8,064) | (4,105) |
| Net cash used in operating activities | (6,045,368) | (2,955,992) |
| Cash flows from investing activities: | | |
| Purchase of fixed assets | (13,227) | (41,641) |
| Cash flows from financing activities: | | |
| Proceeds from the sale of common stock | 10,000,000 | |
| Proceeds from the exercise of common stock warrants | 1,925,000 | 1,970,000 |
| Proceeds from the exercise of common stock options | | 8,700 |
| Fundraising costs | (944,065) | |
| Principal payments on capital lease | (2,500) | (2,240) |
| Repayments from stockholders | | (293) |
| Net cash provided by financing activities | 10,978,435 | 1,976,167 |
| Net increase (decrease) in cash and cash equivalents | 4,919,840 | (1,021,466) |
| Cash and cash equivalents, beginning of period | 2,627,072 | 3,648,538 |
| Cash and cash equivalents, end of period | \$ 7,546,912 | \$ 2,627,072 |
| Supplemental cashflow information: | | |
| Interest paid | \$ 1,163 | \$ 751 |
| Supplemental disclosure of non-cash financing activities: | | |
| Common stock issued for a finder's fee | \$ 102,000 | \$ |
| Common stock issued in asset purchase | \$ 2,898,625 | \$ |

The accompanying notes are an integral part of these financial statements.

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Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Consolidated Statement of Cash Flows**

| | For the cumulative period from September 8, 2005 (inception) to August 31, 2008 |
|--|--|
| Cash flows from operating activities: | |
| Net loss | \$ (12,655,289) |
| Adjustments to reconcile net loss to net cash used in operating activities: | |
| Employee stock-based compensation expense | 860,533 |
| Consultant stock-based compensation expense | 359,520 |
| Amortization of intangible assets | 106,709 |
| Depreciation of fixed assets | 266,247 |
| In-process research and development | 240,625 |
| Amortization of stock issued for loan placement fee | 102,000 |
| Capitalized acquisition costs previously expensed | 38,000 |
| Changes in assets and liabilities: | |
| Prepaid expenses | (115,593) |
| Receivables - other | |
| Intangible assets | (150,000) |
| Deposits | (100,207) |
| Accounts payable | 565,593 |
| Accrued liabilities | 432,434 |
| Deferred rent | 2,951 |
| Net cash used in operating activities | (10,046,447) |
| Cash flows from investing activities: | |
| Purchase of fixed assets | (453,616) |
| Cash flows from financing activities: | |
| Proceeds from the sale of common stock | 15,000,000 |
| Proceeds from the exercise of common stock warrants | 3,895,000 |
| Proceeds from the exercise of common stock options | 8,700 |
| Fundraising costs | (1,161,599) |
| Proceeds from the sale of common stock to initial investors | 310,000 |
| Proceeds from bridge loan | 200,000 |
| Repayment of bridge loan | (200,000) |
| Principal payments on capital lease | (5,096) |
| Net cash provided by financing activities | 18,047,005 |
| Net increase in cash and cash equivalents | 7,546,912 |
| Cash and cash equivalents, beginning of period | |
| Cash and cash equivalents, end of period | \$ 7,546,912 |
| Supplemental cashflow information: | |
| Interest paid | \$ 5,375 |

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| Supplement disclosure of non-cash financing activities: | | |
|---|----|-----------|
| Acquisition of equipment in exchange for capital lease | \$ | 7,397 |
| Notes receivable issued in exchange for common stock | \$ | 110,000 |
| Common stock issued for loan placement fees | \$ | 102,000 |
| Common stock issued in asset purchase | \$ | 2,898,625 |

The accompanying notes are an integral part of these financial statements.

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RAPTOR PHARMACEUTICALS CORP.

(A Development Stage Company)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(1) NATURE OF OPERATIONS AND BUSINESS RISKS

The accompanying consolidated financial statements reflect the results of operations of Raptor Pharmaceuticals Corp. (the Company or Raptor) and have been prepared in accordance with the accounting principles generally accepted in the United States of America.

Raptor is a publicly-traded biotechnology company dedicated to speeding the delivery of new potential treatment options to patients by working to improve existing therapeutics through the application of highly specialized drug targeting platforms and formulation expertise. The Company focuses on underserved patient populations where it can potentially have the greatest impact. Raptor's preclinical division bioengineers novel drug candidates and drug-targeting platforms derived from the human receptor-associated protein (RAP) and related proteins, while Raptor's clinical division advances clinical-stage product candidates towards marketing approval and commercialization. Raptor's clinical programs include Convivia™ for the potential treatment of aldehyde dehydrogenase (ALDH2) deficiency and DR Cysteamine for the potential treatment of nephropathic cystinosis, non-alcoholic steatohepatitis (NASH), Huntington's Disease and Batten Disease. Raptor's preclinical programs target cancer, neurodegenerative disorders and infectious diseases. HepTide is designed to utilize engineered RAP-based peptides conjugated to drugs to target delivery to the liver to potentially treat primary liver cancer and hepatitis. NeuroTrans represents engineered RAP peptides created to target receptors in the brain and are currently undergoing preclinical evaluation for their ability to enhance the transport of therapeutics across the blood-brain barrier. WntTide is based upon Mesd and Mesd peptides that the Company is studying in a preclinical breast cancer model for WntTide's potential inhibition of Wnt signaling through LRP5, which may block cancers dependent on signaling through LRP5 or LRP6. The Company's fiscal year end is August 31.

The Company is subject to a number of risks, including: the need to raise capital through equity and/or debt financings; the uncertainty whether the Company's research and development efforts will result in successful commercial products; competition from larger organizations; reliance on the proprietary technology of others; dependence on key personnel; uncertain patent protection; and dependence on corporate partners and collaborators.

See the section titled "Risk Factors" in this joint proxy statement/prospectus.

(2) SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

(a) Basis of Presentation

The Company's consolidated financial statements include the accounts of the Company's wholly owned subsidiaries, Raptor Pharmaceutical Inc. and Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.), incorporated in Delaware on September 8, 2005 (date of inception) and August 1, 2007, respectively. All inter-company accounts have been eliminated. The Company's consolidated financial statements have been prepared on a going concern basis, which contemplates the realization of assets and the settlement of liabilities and commitments in the normal course of business. Through August 31, 2008, the Company had accumulated losses of approximately \$12.7 million. Management expects to incur further losses for the foreseeable future. Management believes that the Company's cash and cash equivalents at August 31, 2008 will be sufficient to meet the Company's obligations into the second calendar quarter of 2009. Until the Company can generate sufficient levels of cash from its operations, the Company expects to continue to finance future cash needs primarily through proceeds from equity or debt financings, loans and collaborative agreements with corporate partners or through a business combination with a company that has such financing in order to be able to sustain its operations until the Company can achieve profitability and positive cash flows, if ever.

Table of Contents**RAPTOR PHARMACEUTICALS CORP.****(A Development Stage Company)****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

The Company's independent registered public accounting firm has audited our consolidated financial statements for the years ended August 31, 2008 and 2007. The October 29, 2008 audit opinion included a paragraph indicating substantial doubt as to the Company's ability to continue as a going concern due to the fact that the Company is in the development stage and has not generated any revenue to date.

Management plans to seek additional debt and/or equity financing for the Company through private or public offerings or through a business combination, but it cannot assure that such financing will be available on acceptable terms, or at all. The uncertainty of this situation raises substantial doubt about the Company's ability to continue as a going concern. The accompanying consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

(b) Use of Estimates

The preparation of financial statements in conformity with United States generally accepted accounting principles requires management to make certain estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities as of the dates of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

(c) Fair Value of Financial Instruments

The carrying amounts of certain of the Company's financial instruments including cash and cash equivalents, prepaid expenses, accounts payable, accrued liabilities and capital lease liability approximate fair value due to their short maturities.

(d) Segment Reporting

The Company has determined that in the current fiscal year it operates as two operating segments, preclinical development and clinical development. In the prior fiscal years, the Company operated only in one preclinical segment. Operating segments are components of an enterprise for which separate financial information is available and are evaluated regularly by the Company in deciding how to allocate resources and in assessing performance. The Company's chief executive officer assesses the Company's performance and allocates its resources. Below is a break-down of the Company's net loss and total assets by operating segment:

| | For the year ended August 31, 2008 | | |
|--------------|---|-----------------|----------------|
| | Preclinical | Clinical | Total |
| Net loss | \$ (3,834,895) | \$ (4,219,068) | \$ (8,053,963) |
| Total assets | 2,646,595 | 7,974,175 | 10,620,770 |

(e) Cash and Cash Equivalents

The Company considers all highly liquid investments with original maturities of three months or less to be cash equivalents.

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(f) Intangible Assets

Intangible assets include the intellectual property and other rights relating to DR Cysteamine and to the RAP technology. The intangible assets are amortized using the straight-line method over the estimated useful life of 20 years, which is the life of the intellectual property patents. The 20 year estimated useful life is also based upon the typical development, approval, marketing and life cycle management timelines of pharmaceutical drug products.

(g) Fixed Assets

Fixed assets, which mainly consist of leasehold improvements, lab equipment, computer hardware and software and capital lease equipment, are stated at cost. Depreciation is computed using the straight-line method over the related estimated useful lives, except for leasehold improvements and capital lease equipment, which are depreciated over the shorter of the useful life of the asset or the lease term. Significant additions and improvements are capitalized, while repairs and maintenance are charged to expense as incurred.

(h) Impairment of Long-Lived Assets

The Company evaluates its long-lived assets for indicators of possible impairment by comparison of the carrying amounts to future net undiscounted cash flows expected to be generated by such assets when events or changes in circumstances indicate the carrying amount of an asset may not be recoverable. Should an impairment exist, the impairment loss would be measured based on the excess carrying value of the asset over the asset's fair value or discounted estimates of future cash flows. The Company has not identified any such impairment losses to date.

(i) Income Taxes

Income taxes are recorded under the liability method, under which deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to affect taxable income. Valuation allowances are established when necessary to reduce deferred tax assets to the amount expected to be realized.

(j) Research and Development

The Company is an early development stage company. Research and development costs are charged to expense as incurred. Research and development expenses include scientists' salaries, lab collaborations, preclinical studies, clinical trials, clinical trial materials, regulatory and clinical consultants, lab supplies, lab services, lab equipment maintenance and small equipment purchased to support the research laboratory and allocated executive, human resources and facilities expenses.

(k) In-Process Research and Development

The Company records in-process research and development expense for a product candidate acquisition where there is not more than one potential product or usage for the assets being acquired. The Company reviews each product candidate acquisition to determine if the purchase price should be expensed as in-process research and development or capitalized and amortized over the life of the asset.

Table of Contents**RAPTOR PHARMACEUTICALS CORP.****(A Development Stage Company)****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS***(l) Net Loss per Share*

Net loss per share is calculated by dividing net loss by the weighted average shares of common stock outstanding during the period. Diluted net income per share is calculated by dividing net income by the weighted average shares of common stock outstanding and potential shares of common stock during the period. For all periods presented, potentially dilutive securities are excluded from the computation of fully diluted net loss per share as their effect is anti-dilutive. Potentially dilutive securities include:

| | August 31, | |
|--|-------------------|------------------|
| | 2008 | 2007 |
| Warrants to purchase common stock | 13,258,276 | 5,910,000 |
| Options to purchase common stock | 3,893,227 | 2,934,800 |
| Total potentially dilutive securities | 17,151,503 | 8,844,800 |

(m) Stock Option Plans

Effective September 1, 2006, the Company adopted the provisions of Statement of Financial Accounting Standards (SFAS) No. 123 (revised 2004), *Share-Based Payment* (SFAS 123R) in accounting for its 2006 Equity Incentive Plan, as amended. Under SFAS 123R, compensation cost is measured at the grant date based on the fair value of the equity instruments awarded and is recognized over the period during which an employee is required to provide service in exchange for the award, or the requisite service period, which is usually the vesting period. The fair value of the equity award granted is estimated on the date of the grant. The Company previously applied Accounting Principles Board (APB) Opinion No. 25, *Accounting for Stock Issued to Employees*, and related interpretations and provided the required pro forma disclosures required by SFAS No. 123, *Accounting for Stock-Based Compensation*. See Note 7, *Stock Option Plan* for further discussion of employee stock-based compensation.

(n) Recent Accounting Pronouncements

In September 2006, the Financial Accounting Standards Board (FASB) issued SFAS No. 157, *Fair Value Measurements* (SFAS 157). SFAS 157 defines fair value, establishes a framework for measuring fair value in accordance with generally accepted accounting principles, and expands disclosures about fair value measurements. SFAS 157 does not require any new fair value measurements; rather, it applies under other accounting pronouncements that require or permit fair value measurements. The provisions of SFAS 157 are to be applied prospectively as of the beginning of the fiscal year in which it is initially applied, with any transition adjustment recognized as a cumulative-effect adjustment to the opening balance of retained earnings. The provisions of SFAS 157 are effective for fiscal years beginning after November 15, 2007; therefore, the Company anticipates adopting SFAS 157 as of September 1, 2008. The Company is assessing the impact of the adoption of SFAS 157.

In February 2007, the FASB issued SFAS 159, *The Fair Value Option for Financial Assets and Financial Liabilities, Including an Amendment of FASB Statement No. 115*, which permits the measurement of many financial instruments and certain other asset and liabilities at fair value on an instrument-by-instrument basis (the fair value option). The guidance is applicable for fiscal years beginning after November 15, 2007; therefore, the Company anticipates adopting SFAS 159 as of September 1, 2008. The Company is currently evaluating the impact of SFAS 159 on its financial position and consolidated results of operations.

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In June 2007, the Emerging Issues Task Force (EITF) reached a consensus on EITF No. 07-03, *Accounting for Nonrefundable Advance Payments for Goods or Services to Be Used in Future Research and Development Activities* (EITF 07-03). EITF 07-03 specifies the timing of expense recognition for non-refundable advance payments for goods or services that will be used or rendered for research and development activities. EITF 07-03 was effective for fiscal years beginning after December 15, 2007, and early adoption is not permitted; therefore, the Company anticipates adopting EITF 07-03 as of September 1, 2008. The Company is currently evaluating the impact of EITF 07-03 on its financial position and consolidated results of operations.

In December 2007, the EITF reached a consensus on EITF No. 07-01, *Accounting for Collaborative Arrangements Related to the Development and Commercialization of Intellectual Property* (EITF 07-01). EITF 07-01 discusses the appropriate income statement presentation and classification for the activities and payments between the participants in arrangements related to the development and commercialization of intellectual property. The sufficiency of disclosure related to these arrangements is also specified. EITF 07-01 is effective for fiscal years beginning after December 15, 2008. As a result, EITF 07-01 is effective for the Company as of September 1, 2009. The Company is currently evaluating the impact of EITF 07-01 on its financial position and results of operations. Based upon the nature of the Company's business, EITF 07-01 could have a material impact on its financial position and consolidated results of operations in future years.

In December 2007, FASB issued Statement No. 141 (Revised 2007), *Business Combinations* (SFAS 141(R)) and SFAS No. 160, *Accounting and Reporting of Non-controlling Interests in Consolidated Financial Statements*, an amendment of ARB No. 51 (SFAS 160). These statements will significantly change the financial accounting and reporting of business combination transactions and non-controlling (or minority) interests in consolidated financial statements. SFAS 141(R) requires companies to: (i) recognize, with certain exceptions, 100% of the fair values of assets acquired, liabilities assumed, and non-controlling interests in acquisitions of less than a 100% controlling interest when the acquisition constitutes a change in control of the acquired entity; (ii) measure acquirer shares issued in consideration for a business combination at fair value on the acquisition date; (iii) recognize contingent consideration arrangements at their acquisition-date fair values, with subsequent changes in fair value generally reflected in earnings; (iv) with certain exceptions, recognize pre-acquisition loss and gain contingencies at their acquisition-date fair values; (v) capitalize in-process research and development (IPR&D) assets acquired; (vi) expense, as incurred, acquisition-related transaction costs; (vii) capitalize acquisition-related restructuring costs only if the criteria in SFAS No. 146, *Accounting for Costs Associated with Exit or Disposal Activities*, are met as of the acquisition date; and (viii) recognize changes that result from a business combination transaction in an acquirer's existing income tax valuation allowances and tax uncertainty accruals as adjustments to income tax expense. SFAS 141(R) is required to be adopted concurrently with SFAS 160 and is effective for business combination transactions for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008 (our fiscal 2009). Early adoption of these statements is prohibited. The Company believes the adoption of these statements will have a material impact on significant acquisitions completed after September 1, 2009.

In December 2007, the SEC issued Staff Accounting Bulletin (SAB) No. 110. SAB 110 expresses the views of the SEC regarding the use of a simplified or shortcut method, as discussed in SAB No. 107, *Share-Based Payment*, in developing an estimate of expected term of plain vanilla share options in accordance with SFAS No. 123R. The guidance in SAB 110 is effective as of January 1, 2008. The adoption of SAB 110 did not have a material effect on the Company's consolidated financial statements.

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In March 2008, the FASB issued SFAS No. 161, *Disclosures about Derivative Instruments and Hedging Activities* (SFAS 161). This statement will require enhanced disclosures about derivative instruments and hedging activities to enable investors to better understand their effects on an entity's financial position, financial performance, and cash flows. It is effective for financial statements issued for fiscal years and interim periods beginning after November 15, 2008, with early application encouraged. The Company is assessing the impact of the adoption of SFAS 161, but anticipates that SFAS 161 will not have a material effect on its financial position, consolidated results of operations and consolidated cash flows once it is adopted on February 1, 2009.

In May 2008, FASB issued SFAS No. 162, *The Hierarchy of Generally Accepted Accounting Principles* (SFAS 162). This standard is intended to improve financial reporting by identifying a consistent framework, or hierarchy, for selecting accounting principles to be used in preparing financial statements that are presented in conformity with U.S. GAAP for non-governmental entities. SFAS No. 162 is effective 60 days following the U.S. Securities and Exchange Commission's approval of the Public Company Accounting Oversight Board amendments to AU Section 411, the meaning of Present Fairly in Conformity with GAAP. The Company is in the process of evaluating the impact, if any, of SFAS 162 on its consolidated financial statements.

In May 2008, the FASB released FASB Staff Position (FSP) APB 14-1 *Accounting For Convertible Debt Instruments That May Be Settled in Cash Upon Conversion (Including Partial Cash Settlement)* (FSP APB 14-1) that alters the accounting treatment for convertible debt instruments that allow for either mandatory or optional cash settlements. FSP APB 14-1 specifies that issuers of such instruments should separately account for the liability and equity components in a manner that will reflect the entity's nonconvertible debt borrowing rate when interest cost is recognized in subsequent periods. Furthermore, it would require recognizing interest expense in prior periods pursuant to retrospective accounting treatment. FSP APB 14-1 is effective for financial statements issued for fiscal years beginning after December 15, 2008; therefore, the Company anticipates adopting FSP APB 14-1 as of September 1, 2009. The Company is in the process of evaluating the impact, if any, of FSP APB 14-1 on its consolidated financial statements.

(3) INTANGIBLE ASSETS

On January 27, 2006, BioMarin Pharmaceutical Inc. (BioMarin) assigned the intellectual property and other rights relating to the RAP technology to the Company. As consideration for the assignment of the RAP technology, BioMarin will receive milestone payments based on certain financing and regulatory triggering events. No other consideration was paid for this assignment. The Company has recorded \$150,000 of intangible assets on the consolidated balance sheets as of August 31, 2008 and 2007 based on the estimated fair value of its agreement with BioMarin.

Table of Contents**RAPTOR PHARMACEUTICALS CORP.****(A Development Stage Company)****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

On December 14, 2007, the Company acquired the intellectual property and other rights to develop DR Cysteamine to treat various indications from the University of California at San Diego (UCSD) by way of a merger with Encode Pharmaceuticals, Inc. (Encode), a privately held research and development company, which held the intellectual property license with UCSD. The intangible assets, recorded at approximately \$2.6 million acquired in the merger with Encode, were primarily based on the value of the Company's common stock and warrants issued to the Encode stockholders as reflected in the table below:

| | |
|--|--------------|
| Raptor common stock issued (number of shares) | 3,444,297 |
| Raptor common stock issuable upon marketing approval by a regulatory agency of DR Cysteamine for Cystinosis (number of shares) | 351,359 |
| Total shares of common stock used to value the transaction | 3,795,656 |
| 10-day average closing price of Raptor common stock per merger agreement | \$ 0.586 |
| Value of Raptor common stock portion of transaction | \$ 2,224,254 |
| Value (based on Carpenter model) of warrants issued in connection with transaction, net of legal fees | 395,746 |
| Intangible asset (IP license) related to the Encode merger, gross | \$ 2,620,000 |
| Intangible asset related to NeuroTrans™ purchase from BioMarin, gross | 150,000 |
| Total gross intangible assets | 2,770,000 |
| Less accumulated amortization | (106,709) |
| Intangible assets, net | \$ 2,663,291 |

The intangible assets are being amortized monthly over 20 years, which are the life of the intellectual property patents and the estimated useful life. The 20 year estimated useful life is also based upon the typical development, approval, marketing and life cycle management timelines of pharmaceutical drug products. During the year ended August 31, 2008 and 2007 and the cumulative period from September 8, 2005 (inception) to August 31, 2008, the Company amortized \$94,833, \$7,500 and \$106,708, respectively, of intangible assets to research and development expense.

The following table summarizes the actual and estimated amortization expense for our intangible assets for the periods indicated:

| Amortization period | Amortization expense |
|---|-----------------------------|
| September 8, 2005 (inception) to August 31, 2006 actual | \$ 4,375 |
| Fiscal year ending August 31, 2007 actual | 7,500 |
| Fiscal year ending August 31, 2008 actual | 94,833 |
| Fiscal year ending August 31, 2009 estimate | 138,500 |
| Fiscal year ending August 31, 2010 estimate | 138,500 |
| Fiscal year ending August 31, 2011 estimate | 138,500 |
| Fiscal year ending August 31, 2012 estimate | 138,500 |
| Fiscal year ending August 31, 2013 estimate | 138,500 |

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(A Development Stage Company)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**(4) FIXED ASSETS**

Fixed assets consisted of:

| Category | August 31, | | Estimated useful lives |
|--------------------------------|------------|------------|--|
| | 2008 | 2007 | |
| Leasehold improvements | \$ 113,422 | \$ 113,422 | Shorter of life of asset or lease term |
| Office furniture | 3,188 | | 7 years |
| Laboratory equipment | 277,303 | 269,334 | 5 years |
| Computer hardware and software | 59,703 | 57,634 | 3 years |
| Capital lease equipment | 7,397 | 7,397 | Shorter of life of asset or lease term |
| | 461,013 | 447,787 | |
| Less: accumulated depreciation | (266,247) | (139,359) | |
| Total fixed assets, net | \$ 194,766 | \$ 308,428 | |

Depreciation expense for the years ended August 31, 2008 and 2007 and the cumulative period from September 8, 2005 (inception) to August 31, 2008 was \$126,888, \$120,530 and \$266,247, respectively. Accumulated depreciation on capital lease equipment was \$5,446 and \$2,980 as of August 31, 2008 and 2007, respectively.

(5) ACCRUED LIABILITIES

Accrued liabilities consisted of:

| | August 31, | |
|-------------------------------------|------------|------------|
| | 2008 | 2007 |
| Clinical trial costs | \$ 114,514 | \$ |
| Auditing and tax preparation fees | 66,307 | 44,877 |
| Legal fees | 51,503 | 66,647 |
| Preclinical studies | 48,165 | 5,000 |
| Salaries and wages | 44,165 | 29,664 |
| Consulting administrative | 30,000 | |
| Accrued vacation | 17,728 | 7,070 |
| Lab reagents | 27,024 | |
| Patent costs | 10,000 | 13,086 |
| Consulting research and development | 7,578 | |
| Prepaid conference expense | 5,490 | |
| Lab collaborations | | 22,188 |
| Scientific subscriptions | | 5,328 |
| Other | 9,960 | 7,460 |
| Total | \$ 432,434 | \$ 201,320 |

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RAPTOR PHARMACEUTICALS CORP.

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(6) IN PROCESS RESEARCH AND DEVELOPMENT

On October 17, 2007, the Company purchased certain assets of Convivia, Inc. (Convivia) including intellectual property, know-how and research reports related to a product candidate targeting liver aldehyde dehydrogenase (ALDH2) deficiency, a genetic metabolic disorder. The Company issued an aggregate of 437,500 shares of its restricted, unregistered common stock to the seller and other third parties in settlement of the asset purchase. Pursuant to FAS 2 Paragraph 11(c), *Intangibles Purchased From Others*, the Company has expensed the value of the common stock issued in connection with this asset purchase as in-process research and development expense. The amount expensed was based upon the closing price of Raptor s common stock on the date of the closing of the asset purchase transaction of \$0.55 per share multiplied by the aggregate number of shares of Raptor common stock issued or 437,500 for a total expense of \$240,625 recorded on Raptor s consolidated statement of operations during the year ended August 31, 2008.

(7) STOCK OPTION PLAN

Effective September 1, 2006, the Company began recording compensation expense associated with stock options and other forms of equity compensation in accordance with SFAS 123R, as interpreted by Staff Accounting Bulletin No. 107 (SAB 107). Prior to September 1, 2006, the Company accounted for stock options according to the provisions of Accounting Principles Board (APB) Opinion No. 25, *Accounting for Stock Issued to Employees*, and related interpretations, and therefore no related compensation expense was recorded for awards granted with no intrinsic value. The Company adopted the modified prospective transition method provided for under SFAS 123R, and consequently has not retroactively adjusted results from prior periods. Under this transition method, compensation cost associated with stock options now includes: (1) quarterly amortization related to the remaining unvested portion of all stock option awards granted prior to September 1, 2006, based on the grant date value estimated in accordance with the original provisions of SFAS 123; and (2) quarterly amortization related to all stock option awards granted subsequent to September 1, 2006, based on the grant date fair value estimated in accordance with the provisions of SFAS 123R. In addition, the Company records consulting expense over the vesting period of stock options granted to consultants. The compensation expense for stock-based compensation awards includes an estimate for forfeitures and is recognized over the requisite service period of the options, which is typically the period over which the options vest, using the straight-line method. The Company accounts for stock options issued to third parties, including consultants, in accordance with the provisions of the EITF Issue No. 96-18, *Accounting for Equity Instruments That Are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling Goods or Services*.

Employee stock-based compensation expense for the years ended August 31, 2008 and 2007 and for the cumulative period from September 8, 2005 (inception) to August 31, 2008 was \$491,555, \$368,978 and \$860,533, of which cumulatively \$728,729 was included in general and administrative expense and \$131,804 was included in research and development expense. No employee stock compensation costs were recognized for the period from September 8, 2005 (inception) to August 31, 2006, which was prior to the Company s adoption of SFAS 123R.

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Stock-based compensation expense was based on the Black-Scholes option-pricing model assuming the following:

| Period* | Risk-free interest rate | Expected life of stock option | Annual Volatility | Annual Turnover Rate |
|--|--------------------------------|--------------------------------------|--------------------------|-----------------------------|
| September 8, 2005 (inception) to August 31, 2006** | 5% | 10 years | 100% | 0% |
| Quarter ended November 30, 2006 | 5% | 8 years | 100% | 10% |
| Quarter ended February 28, 2007 | 5% | 8 years | 100% | 10% |
| Quarter ended May 31, 2007 | 5% | 8 years | 100% | 10% |
| Quarter ended August 31, 2007 | 4% | 8 years | 99.75% | 10% |
| Quarter ended November 30, 2007 | 3.75% | 8 years | 109% | 10% |
| Quarter ended February 29, 2008 | 2% | 8 years | 119% | 10% |
| Quarter ended May 31, 2008 | 2% | 8 years | 121% | 10% |
| Quarter ended August 31, 2008 | 2.5% | 8 years | 128% | 10% |

* Dividend rate is 0% for all period presented.

** Stock-based compensation expense was recorded on the consolidated statements of operations commencing on the effective date of SFAS 123R, September 1, 2006. Prior to September 1, 2006, stock based compensation was reflected only in the footnotes to the consolidated statements of operations, with no effect on the consolidated statements of operations, per the guidelines of APB No. 25. Consultant options expense has been recorded on the consolidated statements of operations since inception. If factors change and different assumptions are employed in the application of SFAS 123R, the compensation expense recorded in future periods may differ significantly from what was recorded in the current period.

The Company recognizes as an expense the fair value of options granted to persons who are neither employees nor directors. The fair value of expensed options was based on the Black-Scholes option-pricing model assuming the same factors shown in the stock-based compensation expense table above. Stock-based compensation expense for consultants for the years ended August 31, 2008 and 2007 and for the cumulative period from September 8, 2005 (inception) to August 31, 2008, were \$240,229, \$95,731 and \$359,520, respectively, of which cumulatively \$65,053 was included in general and administrative expense and \$294,467 was included in research and development expense.

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A summary of the activity in the 2006 Equity Compensation Plan is as follows:

| | Option shares | Weighted average exercise price | Exercisable | Weighted average fair value of options granted |
|----------------------------------|---------------|---------------------------------|-------------|--|
| Outstanding at September 8, 2005 | | | | |
| Granted | 2,488,400 | \$ 0.62 | | \$ 0.48 |
| Exercised | | | | |
| Canceled | | | | |
| Outstanding at August 31, 2006 | 2,488,400 | \$ 0.62 | 17,200 | \$ 0.61 |
| Granted | 460,900 | \$ 0.60 | | \$ 0.52 |
| Exercised | (14,500) | \$ 0.60 | | \$ 0.52 |
| Canceled | | | | |
| Outstanding at August 31, 2007 | 2,934,800 | \$ 0.61 | 1,172,081 | \$ 0.53 |
| Granted | 238,500 | \$ 0.53 | | \$ 0.48 |
| Exercised | | | | |
| Canceled | | | | |
| Outstanding at November 30, 2007 | 3,173,300 | \$ 0.61 | 1,404,804 | \$ 0.55 |
| Granted | 357,427 | \$ 0.57 | | \$ 0.52 |
| Exercised | | | | |
| Canceled | | | | |
| Outstanding at February 29, 2008 | 3,530,727 | \$ 0.60 | 2,038,725 | \$ 0.55 |
| Granted | 75,000 | \$ 0.53 | | \$ 0.48 |
| Exercised | | | | |
| Canceled | | | | |
| Outstanding at May 31, 2008 | 3,605,727 | \$ 0.60 | 2,306,474 | \$ 0.55 |
| Granted | 287,500 | \$ 0.48 | 270,873 | \$ 0.45 |
| Exercised | | | | |
| Canceled | | | | |
| Outstanding at August 31, 2008 | 3,893,227 | \$ 0.59 | 2,577,347 | \$ 0.55 |

The weighted average intrinsic values of stock options outstanding and stock options exercisable as of August 31, 2008 and 2007 were \$5,500 and zero, respectively.

There were 2,092,273 options available for grant under the 2006 Equity Compensation Plan as of August 31, 2008. As of August 31, 2008, the options outstanding consisted of the following:

| Range of exercise prices | Options outstanding | | Options exercisable | | |
|--------------------------|-------------------------------|---|---------------------------------|-------------------------------|---------------------------------|
| | Number of options Outstanding | Weighted average remaining contractual Life | Weighted average exercise price | Number of options exercisable | Weighted average exercise price |
| \$0 to \$0.60 | 3,304,827 | 8.35 | \$ 0.58 | 2,113,947 | \$ 0.59 |
| \$0.601 to \$0.70 | 588,400 | 7.75 | \$ 0.67 | 463,400 | \$ 0.67 |
| | 3,893,227 | 8.26 | \$ 0.59 | 2,577,347 | \$ 0.61 |

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Table of Contents**RAPTOR PHARMACEUTICALS CORP.****(A Development Stage Company)****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

At August 31, 2008, the total unrecognized compensation cost was approximately \$537,000. The weighted average period over which it is expected to be recognized is one and a half years.

(8) INCOME TAXES

There is no provision for income taxes because the Company has incurred operating losses. Deferred income taxes reflect the net tax effects of net operating loss and tax credit carryovers and temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes. Significant components of the Company's deferred tax assets are as follows:

| | August 31, | |
|--|--------------|--------------|
| | 2008 | 2007 |
| Deferred tax assets: | | |
| Federal and state net operating losses | \$ 3,248,000 | \$ 1,596,000 |
| Capitalized start-up costs | 612,000 | 113,000 |
| Consultant stock option expense | 114,000 | 50,000 |
| Research credit | 84,000 | 23,000 |
| Valuation allowance | (4,058,000) | (1,782,000) |
| Net deferred tax assets | \$ | \$ |

As of August 31, 2008, the Company had net operating loss carryforwards for federal and state income tax purposes of approximately \$8.1 million which expire beginning after the year 2025 and 2015, respectively. The Company's federal and state research and development credits expire beginning after the year 2025.

The valuation allowance increased approximately \$2,276,000 during the period ending August 31, 2008.

Utilization of the Company's net operating loss may be subject to substantial annual limitation due to the ownership change limitations provided by the Internal Revenue Code and similar state provisions. Such an annual limitation could result in the expiration of the net operating loss before utilization.

In July 2006, the FASB released Final Interpretation No. 48, *Accounting for Uncertainty in Income Taxes* (FIN 48). FIN 48 prescribes the minimum recognition threshold a tax position is required to meet before being recognized in the financial statements. This Interpretation also provides guidance on the recognition of income tax assets and liabilities, classification of current and deferred income tax assets and liabilities, accounting for interest and penalties associated with tax positions, accounting for income taxes in interim periods, and income tax disclosures. FIN 48 also requires additional disclosure of the beginning and ending unrecognized tax benefits and details regarding the uncertainties that may cause the unrecognized benefits to increase or decrease within a twelve month period. FIN 48 is effective for fiscal years beginning after December 15, 2006, with the cumulative effect of the change in accounting principle, if any, recorded as an adjustment to opening retained earnings.

The Company adopted FIN 48 as of September 1, 2007. As a result of the implementation, the Company recognized no adjustment in the liability for unrecognized income tax benefits. The Company's policy will be to recognize interest and penalties related to income taxes in income tax expense. The Company is not aware of any pending income tax audits. Significant components of the Company's deferred tax assets for income tax purposes are net operating loss carryforwards, capitalized start-up costs, stock based compensation and research credit. Due to the Company's lack of earning history, any deferred assets recorded have been fully offset by a valuation allowance.

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The Company had no current federal income tax expense and minimal current state franchise tax expense for the year ended August 31, 2008 and 2007. The reconciliation between the U.S. federal statutory tax rate to the Company's effective tax rate is as follows:

| | |
|-----------------------------|-------|
| Federal tax and R&D credits | 35% |
| Valuation allowance | (35)% |
| Effective tax rate | 0% |

(9) ISSUANCE OF COMMON STOCK**ISSUANCE OF COMMON STOCK PURSUANT TO COMMON STOCK WARRANT EXERCISES AND STOCK OPTION EXERCISES**

During the cumulative period from September 8, 2005 (inception) through August 31, 2008, the Company received \$3.895 million, from the exercises of common stock warrants issued in the Company's May 2006 financing. The Company issued an aggregate of 6,491,667 shares of common stock for the warrants, which had an exercise price of \$0.60 per share and expired on November 25, 2007.

During the cumulative period from September 8, 2005 (inception) through August 31, 2008, the Company received \$8,700 from the exercise of stock options resulting in the issuance of 14,500 shares of common stock. Total common stock outstanding as of August 31, 2008 was 60,330,047 shares.

ISSUANCE OF COMMON STOCK PURSUANT TO AN ASSET PURCHASE AGREEMENT WITH CONVIVIA, INC.

On October 18, 2007, the Company purchased certain assets of Convivia, Inc. (Convivia) including intellectual property, know-how and research reports related to a product candidate targeting liver aldehyde dehydrogenase (ALDH2) deficiency, a genetic metabolic disorder. The Company hired Convivia's chief executive officer and founder, Thomas E. (Ted) Daley, as President of its clinical division. In exchange for the assets related to the ALDH2 deficiency program, the Company issued to Convivia 200,000 shares of its restricted, unregistered common stock, an additional 200,000 shares of its restricted, unregistered common stock to a third party in settlement of a convertible loan between the third party and Convivia, and another 37,500 shares of restricted, unregistered common stock in settlement of other obligations of Convivia. Mr. Daley, as the former sole stockholder of Convivia (now dissolved), may earn additional shares of the Company based on certain triggering events or milestones related to the development of Convivia assets. In addition, Mr. Daley may earn cash bonuses based on the same triggering events pursuant to his employment agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement for executing the Patheon formulation agreement for manufacturing Convivia™. In March 2008, Mr. Daley earned a \$10,000 cash bonus pursuant to his employment agreement and was issued 100,000 shares of valued at \$56,000 based on the execution of an agreement to supply the Company with the active pharmaceutical ingredient for Convivia™ pursuant to the asset purchase agreement. In October 2008, Mr. Daley was issued 100,000 shares of restricted Raptor common stock and earned a \$30,000 cash bonus (pursuant to Mr. Daley's employment agreement) pursuant to the fulfillment of a clinical milestone. Pursuant to FAS 2, the accounting guidelines for expensing research and development costs, the Company has expensed the value of the stock issued in connection with this asset purchase (except for milestone bonuses, which are expensed as compensation expense) as in-process research and development expense in the amount of \$240,625 on its consolidated statement of operations for the year ended August 31, 2008.

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MERGER OF RAPTOR'S CLINICAL DEVELOPMENT SUBSIDIARY AND ENCODE PHARMACEUTICALS, INC.

On December 14, 2007, the Company entered into a Merger Agreement (the "Merger Agreement"), dated as of the same date, by and between the Company, its clinical development subsidiary and Encode Pharmaceuticals, Inc. ("Encode"), a privately held development stage company. Pursuant to the Merger Agreement, a certificate of merger was filed with the Secretary of State of the State of Delaware and Encode was merged with and into the Company's clinical development subsidiary. The existence of Encode ceased as of the date of the Merger Agreement. Pursuant to the Merger Agreement and the certificate of merger, the Company's clinical development subsidiary, as the surviving corporation, continued as a wholly-owned subsidiary of the Company. Under the terms of and subject to the conditions set forth in the Merger Agreement, the Company issued 3,444,297 shares of restricted, unregistered shares of the Company's common stock, par value \$.001 per share (the "Common Stock") to the stockholders of Encode (the "Encode Stockholders"), options ("Company Options") to purchase 357,427 shares of Common Stock to the optionholders of Encode (the "Encode Optionholders"), and warrants ("Company Warrants") to purchase 1,098,276 restricted, unregistered shares of Common Stock to the warrantholders of Encode (the "Encode Warrantholders"), and together with the Encode Stockholders and Encode Optionholders, the "Encode Securityholders"), as of the date of such Agreement. Such Common Stock, Company Options to purchase Common Stock, and Company Warrants to purchase Common Stock combine for an aggregate amount of 4.9 million shares of Common Stock issuable to the Encode Securityholders as of the closing of the Merger. The purchase price was valued at \$2.6 million, which is reflected as intangible assets on the Company's consolidated balance sheet as of August 31, 2008, primarily based on the value the Company's common stock and warrants issued to Encode stockholders. The Encode Securityholders are eligible to receive up to an additional 2.4 million shares of Common Stock, Company Options and Company Warrants to purchase Common Stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program described below, if completed within the five year anniversary date of the Merger Agreement. The Company recorded this transaction as an asset purchase rather than a business combination, as Encode had not commenced planned principle operations, such as generating revenues from its drug product candidate.

As a result of the Merger, the Company received the exclusive worldwide license to DR Cysteamine ("License Agreement"), developed by clinical scientists at the UCSD, School of Medicine. DR Cysteamine is a proprietary enterically coated formulation of cysteamine bitartrate, a cystine depleting agent currently approved by the U.S. Food and Drug Administration ("FDA"). Cysteamine bitartrate is prescribed for the management of the genetic disorder known as nephropathic cystinosis ("cystinosis"), a lysosomal storage disease. The active ingredient in DR Cysteamine has also demonstrated potential in studies as a treatment for other metabolic and neurodegenerative diseases, such as Batten Disease, Huntington's Disease and Non-alcoholic steatohepatitis ("NASH").

In consideration of the grant of the license, prior to the merger, Encode paid an initial license fee and the Company will be obligated to pay an annual maintenance fee until it begins commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, the Company will be obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year the Company begins commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, the Company is

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RAPTOR PHARMACEUTICALS CORP.

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obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. To the extent that the Company fails to perform any of the obligations, the University may terminate the license or otherwise cause the license to become non-exclusive.

ISSUANCES OF COMMON STOCK AND WARRANTS IN CONNECTION WITH THE SALE OF UNITS IN A PRIVATE PLACEMENT

On May 21, 2008 (the Initial Closing) Raptor entered into a Securities Purchase Agreement (the Purchase Agreement), with eight investors (the Initial Investors) for the private placement of units of the Company, each unit comprised of one share of Raptor's Common Stock and one warrant to purchase one half of one share of Raptor's Common Stock, at a purchase price of \$0.50 per unit. Immediately subsequent to the Initial Closing, the Company and each Initial Investor entered into an Amendment to the Securities Purchase Agreement, principally in order to increase the amount able to be raised by the Company in the private placement and to extend the outside closing date of such private placement (the Amendment), and, together with the Purchase Agreement, the Amended Purchase Agreement), dated as of May 21, 2008.

At the Initial Closing, the Company sold an aggregate of 4,420,000 shares of Common Stock (the Initial Shares) to the Initial Investors for aggregate gross proceeds of \$2,210,000 and issued to the Initial Investors warrants (the Initial Warrants). The Initial Warrants, exercisable for two years from the Initial Closing, entitle the Initial Investors to purchase up to an aggregate of 2,210,000 shares of Common Stock of the Company (the Initial Warrant Stock) and have an exercise price of either \$0.75 or \$0.90 per share, depending on when such Initial Warrants are exercised, if at all and were valued at approximately \$675,000.

Pursuant to the Amended Purchase Agreement, the Company agreed to prepare and file a registration statement (the Registration Statement) within 60 days after the Initial Closing with the Securities and Exchange Commission under the Securities Act, on a Form S-1, covering the Shares and Warrant Stock sold pursuant to the Amended Purchase Agreement (the Restricted Stock) as well as Common Stock underlying warrants issued to placement agents each subject to volume limitations, and to use its commercially reasonable efforts to cause the Registration Statement to become effective with the SEC thereafter and to remain effective until the earlier to occur of the date (i) that is the second anniversary of the Initial Closing, (ii) the date the Restricted Securities may be sold under Rule 144 during any 90-day period and (iii) such time as all of the Restricted Securities have been publicly sold. The Company filed the registration statement on Form S-1 in July 2008, which the SEC declared effective on August 7, 2008.

Following the effectiveness of the Registration Statement, the Company may, at any time, but no more than twice during any 12-month period, suspend the effectiveness of such registration for up to 45 calendar days, as appropriate (a Suspension Period), by giving notice to the holders of shares of Restricted Stock, if the Company shall have determined that the Company may be required to disclose any material corporate development which disclosure may have a material adverse effect on the Company valued at approximately \$40,000.

On May 30, 2008 Raptor sold an additional \$150,000 of units at the same terms as outlined in the May 21, 2008 closing discussed above. As a result, the Company issued 300,000 shares of the Company's Common Stock and warrants to purchase 150,000 shares of the Company's Common Stock valued at approximately \$2.3 million.

On June 27, 2008 Raptor sold an additional \$7,640,000 of units at the same terms as outlined in the May 21, 2008 closing discussed above. As a result, the Company issued 15,280,000 shares of the Company's Common Stock and warrants to purchase 7,640,000 shares of the Company's Common Stock.

Table of Contents**RAPTOR PHARMACEUTICALS CORP.****(A Development Stage Company)****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

In connection with the May and June 2008 private placement, the Company issued warrants and a cash fee to placement agents to compensate them for placing investors into the financing. Placement agents were issued warrants exercisable for 7% of Common Stock issued and issuable under the warrants issued to investors as part of the financing units and a cash fee based upon the proceeds of the sale of the units of the private placement. In connection with the sale of units, the Company issued placement agent warrants to purchase 2,100,000 shares of Raptor's Common Stock at an exercise price of \$0.55 per share for a five year term (valued at approximately \$960,000 using the Black-Scholes method) and cash fees to placement agents totaling \$700,000. Of the placement agents compensated, Limetree Capital was issued warrants to purchase 1,882,650 shares of Raptor's Common Stock and cash commission of \$627,550. One of our Board members serves on the board of Limetree Capital.

The following is a summary of common stock outstanding as of August 31, 2008:

| Transaction | Date | Common Stock Issued |
|---|-----------------------|----------------------------|
| Founders' shares | Sept. 2005 | 6,000,000 |
| Seed round | Feb. 2006 | 2,000,000 |
| PIPE concurrent with reverse merger | May 2006 | 8,333,333 |
| Shares issued in connection with reverse merger | May 2006 | 13,300,000 |
| Warrant exercises | Jan. - Nov. 2007 | 6,491,667 |
| Stock option exercise | Mar. 2007 | 14,500 |
| Loan finder's fee | Sept. 2007 | 200,000 |
| Convivia asset purchase | Oct. 2007 - Mar. 2008 | 537,500 |
| Encode merger DR Cysteamine asset purchase | Dec. 2007 | 3,444,297 |
| Shares issued pursuant to consulting agreement | May 2008 | 8,750 |
| PIPE initial tranche | May 2008 | 4,420,000 |
| PIPE second tranche | May 2008 | 300,000 |
| PIPE third tranche | June 2008 | 15,280,000 |
| Total shares of common stock outstanding | | 60,330,047 |

(10) WARRANTS

The table reflects the number common stock warrants outstanding as of August 31, 2008:

| Summary of outstanding warrants: | Number of Shares Exercisable | Exercise Price | Expiration Date |
|--|-------------------------------------|-----------------------|------------------------|
| Issued in lieu of deferred legal fees | 60,000 | \$ 0.60 | 2/13/2011 |
| Issued in connection with Encode merger | 97,480 | \$ 0.56 | 12/13/2015 |
| Issued in connection with Encode merger | 1,000,796 | \$ 0.67 | 12/13/2015 |
| Issued to PIPE investors in May / June 2008 | 10,000,000 | \$ 0.75 / \$0.90* | 5/21/2010 |
| Issued to placement agents in May / June 2008 | 2,100,000 | \$ 0.55 | 5/21/2013 |
| Total outstanding warrants as of August 31, 2008 | 13,258,276 | \$ 0.70** | |

- * First year exercisable at \$0.75; second year exercisable at \$0.90
- ** Average exercise price

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(11) COMMITMENTS AND CONTINGENCIES

CONTRACTUAL OBLIGATIONS WITH BIOMARIN

Pursuant to the terms of the asset purchase agreement the Company entered into with BioMarin Pharmaceutical Inc. (BioMarin) for the purchase of intellectual property related to our Receptor Associated Protein (RAP) based technology (including NeuroTrans™), we are obligated to make the following milestone payments to BioMarin upon the achievement of the following events:

\$50,000 (paid by the Company in June 2006) within 30 days after Raptor receives total aggregate debt or equity financing of at least \$2,500,000;

\$100,000 (paid by the Company in June 2006) within 30 days after Raptor receives total aggregate debt or equity financing of at least \$5,000,000;

\$500,000 upon the Company's filing and acceptance of an investigational new drug application for a drug product candidate based on the NeuroTrans™ product candidate;

\$2,500,000 upon the Company's successful completion of a Phase II human clinical trial for a drug product candidate based on the NeuroTrans™ product candidate;

\$5,000,000 upon on the Company's successful completion of a Phase III human clinical trial for a drug product candidate based on the NeuroTrans™ product candidate;

\$12,000,000 within 90 days of the Company's obtaining marketing approval from the FDA or other similar regulatory agencies for a drug product candidate based on the NeuroTrans™ product candidate;

\$5,000,000 within 90 days of the Company's obtaining marketing approval from the FDA or other similar regulatory agencies for a second drug product candidate based on the NeuroTrans™ product candidate;

\$5,000,000 within 60 days after the end of the first calendar year in which the Company's aggregated revenues derived from drug product candidates based on the NeuroTrans™ product candidate exceed \$100,000,000; and

\$20,000,000 within 60 days after the end of the first calendar year in which the Company's aggregated revenues derived from drug product candidates based on the NeuroTrans™ product candidate exceed \$500,000,000.

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In addition to these milestone payments, the Company is also obligated to pay BioMarin a royalty at a percentage of the Company's aggregated revenues derived from drug product candidates based on the NeuroTrans™ product candidate. On June 9, 2006, the Company made a milestone payment in the amount of \$150,000 to BioMarin because the Company raised \$5,000,000 in its May 25, 2006 private placement financing. If the Company becomes insolvent or if the Company breaches its asset purchase agreement with BioMarin due to non-payment and the Company does not cure its non-payment within the stated cure period, all of the Company's rights to the RAP technology (including NeuroTrans™) will revert back to BioMarin.

CONTRACTUAL OBLIGATIONS WITH THOMAS E. DALEY (ASSIGNEE OF THE DISSOLVED CONVIVIA, INC.)

Pursuant to the terms of the asset purchase agreement ("Asset Purchase Agreement"), the Company entered into with Convivia, Inc. and Thomas E. Daley for the purchase of intellectual property related to its 4-MP

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product candidate program, Mr. Daley will be entitled to receive the following, if at all, in such amounts and only to the extent certain future milestones are accomplished by the Company (or any of its subsidiary thereof), as set forth below:

100,000 shares of Raptor's restricted, unregistered Common Stock within fifteen (15) days after Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) enters into a manufacturing license or other agreement to produce any product that is predominantly based upon or derived from any assets purchased from Convivia (Purchased Assets) in quantity (Product) if such license agreement is executed within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 50,000 shares of Raptor's restricted, unregistered Common Stock. Should the Company obtain a second such license or agreement for a Product, Mr. Daley will be entitled to receive 50,000 shares of the Company's restricted, unregistered Common Stock within 30 days of execution of such second license or other agreement. On March 31, 2008, the Company issued 100,000 shares of Raptor's Common Stock to Mr. Daley pursuant to this milestone reflecting the execution of an agreement to supply the active pharmaceutical ingredient for Convivia™ for the Company's planned clinical trials, combined with the execution of a formulation agreement to produce the oral formulation of Convivia™ for the Company's planned clinical trials.

100,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) receives its first patent allowance on any patents which constitute part of the Purchased Assets in any one of certain predetermined countries (Major Market).

50,000 shares of our restricted, unregistered Common Stock within fifteen (15) days after Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) receives its second patent allowance on any patents which constitute part of the Purchased Assets different from the patent referenced in the immediately preceding bullet point above in a Major Market.

100,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days of completing predetermined benchmarks in a Major Market by Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) or its licensee of the first phase II human clinical trial for a Product (Successful Completion) if such Successful Completion occurs within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 50,000 shares of the Company's restricted, unregistered Common Stock within thirty (30) days of such Successful Completion. In October 2008, the Company issued 100,000 shares of Raptor's Common Stock and a \$30,000 cash bonus (pursuant to Mr. Daley's employment agreement) to Mr. Daley pursuant to the fulfillment of this milestone.

50,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days of a Successful Completion in a Major Market by Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) or its licensee of the second phase II human clinical trial for a Product (other than the Product for which a distribution is made under the immediately preceding bullet point above).

100,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) or its licensee applies for approval to market and sell a Product in a Major Market for the indications for which approval is sought (Marketing Approval).

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50,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) or its licensee applies for Marketing Approval in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding bullet point above).

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200,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) or its licensee obtains the first Marketing Approval for a Product from the applicable regulatory agency in a Major Market.

100,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) or its licensee obtains Marketing Approval for a Product from the applicable regulatory agency in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding bullet point above).

CONTRACTUAL OBLIGATIONS WITH FORMER ENCODE STOCKHOLDERS AND UCSD RELATING TO THE ACQUISITION OF THE DR CYSTEAMINE LICENSE

As a result of the merger between our clinical subsidiary and Encode, as discussed above in Note 10 above, the Encode Securityholders are eligible to receive up to an additional 2.4 million shares of Raptor's common stock, Company Options and Company Warrants to purchase Raptor's common stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program, if completed within the five year anniversary date of the merger agreement.

Also as a result of the merger, the Company will be obligated to pay an annual maintenance fee to UCSD for the exclusive license to develop DR Cysteamine for certain indications of \$15,000 until it begins commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, the Company will be obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year we begin commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, the Company is obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, the Company is obligated to, among other things, secure \$1 million in funding prior to December 18, 2008 (which we have fulfilled by raising \$10 million in its May and June 2008 private placement) and annually spend at least \$200,000 for the development of products (which, as of its fiscal year ended August 31, 2008, the Company has fulfilled by spending approximately \$900,000 on such programs) pursuant to the License Agreement. To the extent that the Company fails to perform any of its obligations under the License Agreement, then UCSD may terminate the license or otherwise cause the license to become non-exclusive.

OFFICE LEASE

In March 2006, the Company entered into a lease for the Company's executive offices and research laboratory in Novato, California. Base monthly payments were \$5,206 per month subject to annual rent increase of between 3% to 5%, based on the Consumer Price Index (CPI). In March 2006, the Company paid \$20,207 as a security deposit on this lease, which expires in March 2009. Effective April 1, 2007, the Company leased additional office space adjoining the existing leased space, increasing our base rent to \$9,764 per month without extending the term of the original lease. The original lease allows for one three-year extension at the market rate and up to \$18,643 in reimbursement for tenant improvements. In June 2008, the Company's rent increased to \$10,215 reflecting a CPI increase of 3% plus an increase in operating costs for the period from April 1, 2008 to March 31, 2009. In September 2008, the Company executed a lease addendum replacing the one three-year

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extension with two two-year extensions commencing on April 1, 2009 and renegotiated the first two-year extension base rent to \$10,068 with an adjustment after the first year for CPI between 3% (minimum) and 5% (maximum). During the years ended August 31, 2008 and 2007 and the cumulative period from September 8, 2005 (inception) to August 31, 2008, the Company paid \$128,268, \$85,265 and \$239,565, respectively, in rent.

The minimum future lease payments under this operating lease assuming a 3% CPI increase per year are as follows:

| Period | Amount |
|-------------------------------------|---------------|
| Fiscal year ending August 31, 2009 | \$ 122,637 |
| Fiscal year ending August 31, 2010 | 124,226 |
| September 1, 2010 to March 31, 2011 | 73,698 |

CAPITAL LEASE

In June 2006, the Company leased a photocopier machine for 36 months at \$242 per month. There is no purchase option at the end of the lease. Based on the fair value and estimated useful life of the photocopier and the life of the lease and the photocopier, the Company has accounted for the lease as a capital lease. In September 2008, the Company replaced the originally leased photocopier with a new photocopier which is subject to a 39-month lease at \$469 per month. There were no penalties imposed for canceling the original lease.

The future lease payments under the capital lease are as follows:

| Period | Amount |
|--|------------------|
| Fiscal year ending August 31, 2009 | \$ 5,398 |
| Fiscal year ending August 31, 2010 | 5,625 |
| Fiscal year ending August 31, 2011 | 5,625 |
| September 1, 2011 to December 31, 2011 | 1,875 |
| Total capital lease payments | \$ 18,523 |

Interest rate on the capital lease is 10% based on the lessor's implicit rate of return.

RESEARCH COLLABORATION AGREEMENT

In September 2008, the Company signed a research collaboration agreement with a research hospital. The research collaboration agreement requires the Company to pay an aggregate of \$150,000 over one year, which includes the salary, benefits and overhead of one research scientist along with laboratory equipment and supplies necessary to carry out the research at the university.

The future commitments pursuant to the research agreement are as follows:

| Period | Amount |
|------------------------------------|---------------|
| Fiscal year ending August 31, 2009 | \$ 150,000 |

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In 2008, the Company commenced preclinical studies with two clinical research organizations for its DR Cysteamine NASH program and one of its early-stage preclinical programs. These research studies are performed pursuant to research contracts and protocols and are paid in installments throughout the study. The future commitments pursuant to these research contracts are as follows:

| Period | Amount |
|------------------------------------|---------------|
| Fiscal year ending August 31, 2009 | \$ 130,310 |

CLINICAL STUDY AGREEMENTS

In June 2008, the Company entered into a clinical study collaboration agreement with the University of California, San Diego to study DR Cysteamine in juvenile patients with non-alcoholic steatohepatitis, also known as NASH. The future commitments pursuant to these clinical study agreements are as follows:

| Period | Amount |
|------------------------------------|---------------|
| Fiscal year ending August 31, 2009 | \$ 163,042 |

FORMULATION / MANUFACTURING AGREEMENTS

In January and April 2008, the Company executed two agreements with one contract manufacturing organization to formulate and manufacture 4-MP for its Convivia™ program and DR Cysteamine for its Cystinosis program, respectively. The costs are invoiced to the Company in installments throughout the formulation and manufacturing process. Also in July 2008, the Company executed a supply agreement with a contract manufacturer for the active pharmaceutical agreement of DR Cysteamine. The future commitments pursuant to these research contracts are as follows:

| Period | Amount |
|------------------------------------|---------------|
| Fiscal year ending August 31, 2009 | \$ 944,320 |

(12) RELATED PARTY TRANSACTIONS

Pursuant to the terms of the Share Purchase Agreement, the Company issued to each of Drs. Starr and Zankel (its Chief Executive Officer and its Chief Scientific Officer, respectively) 3,000,000 shares of the Company's common stock and to Erich Sager (one of the Company's directors) 1,000,000 shares of its common stock. Mr. Sager purchased his shares pursuant to a promissory note when the Company was privately held in February 2006 in the amount of \$100,000 plus accrued interest at 8% per annum. Mr. Sager repaid \$50,000 of the note on February 8, 2006, another \$50,000 on March 9, 2006 and \$373 of accrued interest on April 11, 2006. Drs. Starr and Zankel and Mr. Sager did not own any shares of the Company's common stock at the time when the Share Purchase Agreement was first approved and executed.

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In connection with the May and June 2008 private placement, the Company issued to Limetree Capital warrants to purchase 1,882,650 shares of Raptor's Common Stock and \$627,550 in cash commissions. One of our Board members serves on the Board of Limetree Capital.

In the ordinary course of business, Raptor's officers occasionally utilize their personal credit cards or cash to pay for expenses on behalf of the Company and the Company reimburses the officers within 30 days. As of August 31, 2008, 2007 and 2006, the Company owed \$0, \$0 and \$293 to its officers for expenses paid by the officers personally on behalf of the Company.

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Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Condensed Consolidated Balance Sheets**

| | May 31, 2009 (unaudited) | August 31, 2008 (1) |
|---|-----------------------------|------------------------|
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 492,963 | \$ 7,546,912 |
| Prepaid expenses and other | 163,508 | 115,594 |
| Total current assets | 656,471 | 7,662,506 |
| Intangible assets, net | 2,559,417 | 2,663,291 |
| Fixed assets, net | 162,490 | 194,766 |
| Deposits | 100,207 | 100,207 |
| Total assets | \$ 3,478,585 | \$ 10,620,770 |
| LIABILITIES AND STOCKHOLDERS EQUITY | | |
| Liabilities | | |
| Current liabilities: | | |
| Accounts payable | \$ 539,181 | \$ 565,593 |
| Accrued liabilities | 246,121 | 432,434 |
| Deferred rent | 3,203 | 2,951 |
| Capital lease liability - current | 3,948 | 2,302 |
| Total current liabilities | 792,453 | 1,003,280 |
| Capital lease liability - long-term | 7,770 | |
| Total liabilities | 800,223 | 1,003,280 |
| Commitments and contingencies | | |
| Stockholders' equity: | | |
| Preferred stock, \$0.001 par value, 10,000,000 shares authorized, zero shares issued and outstanding | | |
| Common stock, \$0.001 par value, 100,000,000 shares authorized 60,430,047 and 60,330,047 shares issued and outstanding as at May 31, 2009 and August 31, 2008, respectively | 60,430 | 60,330 |
| Additional paid-in capital | 22,547,701 | 22,212,449 |
| Deficit accumulated during development stage | (19,929,769) | (12,655,289) |
| Total stockholders' equity | 2,678,362 | 9,617,490 |
| Total liabilities and stockholders' equity | \$ 3,478,585 | \$ 10,620,770 |

(1) Derived from the Company's audited consolidated financial statements as of August 31, 2008.

The accompanying notes are an integral part of these financial statements.

Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Condensed Consolidated Statements of Operations****(Unaudited)**

| | For the three month periods from March 1, to May 31, | |
|--|---|----------------|
| | 2009 | 2008 |
| Revenues: | \$ | \$ |
| Operating expenses: | | |
| General and administrative | 671,348 | 534,906 |
| Research and development | 1,895,670 | 1,591,170 |
| Total operating expenses | 2,567,018 | 2,126,076 |
| Loss from operations | (2,567,018) | (2,126,076) |
| Interest income | 2,967 | 10,789 |
| Interest expense | (595) | (16,168) |
| Net loss | \$ (2,564,646) | \$ (2,131,455) |
| Net loss per share: | | |
| Basic and diluted | \$ (0.04) | \$ (0.05) |
| Weighted average shares outstanding used to compute: | | |
| Basic and diluted | 60,430,047 | 40,675,305 |

The accompanying notes are an integral part of these financial statements.

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Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Condensed Consolidated Statements of Operations****(unaudited)**

| | For the nine months periods from | | For the cumulative period from |
|--|---|---|---|
| | September 1, 2008 to May 31, 2009 | September 1, 2007 to May 31, 2008 | September 8, 2005 (inception) to May 31, 2009 |
| Revenues: | \$ | \$ | \$ |
| Operating expenses: | | | |
| General and administrative | 1,935,612 | 1,588,035 | 6,203,859 |
| Research and development | 5,369,922 | 3,641,400 | 13,674,088 |
| In-process research and development | | 240,625 | 240,625 |
| Total operating expenses | 7,305,534 | 5,470,060 | 20,118,572 |
| Loss from operations | (7,305,534) | (5,470,060) | (20,118,572) |
| Interest income | 32,930 | 51,583 | 298,089 |
| Interest expense | (1,876) | (103,044) | (109,286) |
| Net loss | \$ (7,274,480) | \$ (5,521,521) | \$ (19,929,769) |
| Net loss per share: | | | |
| Basic and diluted | \$ (0.12) | \$ (0.15) | |
| Weighted average shares outstanding used to compute: | | | |
| Basic and diluted | 60,411,732 | 37,882,220 | |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Raptor Pharmaceuticals Corp.****(A Development Stage Company)****Condensed Consolidated Statements of Cash Flows****(unaudited)**

| | For the nine month periods from | | For the cumulative period from |
|--|--|---|---|
| | September 1, 2008 to May 31, 2009 | September 1, 2007 to May 31, 2008 | September 8, 2005 (inception) to May 31, 2009 |
| Cash flows from operating activities: | | | |
| Net loss | \$ (7,274,480) | \$ (5,521,521) | \$ (19,929,769) |
| Adjustments to reconcile net loss to net cash used in operating activities: | | | |
| Employee stock-based compensation exp. | 332,456 | 377,613 | 1,192,989 |
| Consultant stock-based compensation exp. | 39,705 | 220,780 | 399,225 |
| Amortization of intangible assets | 103,874 | 60,209 | 210,583 |
| Depreciation of fixed assets | 66,935 | 105,440 | 333,182 |
| In-process research and development | | 240,625 | 240,625 |
| Amortization of capitalized finder's fee | | 102,000 | 102,000 |
| Capitalized acquisition costs previously expensed | | 38,000 | 38,000 |
| Changes in assets and liabilities: | | | |
| Prepaid expenses | (47,914) | (20,222) | (163,507) |
| Intangible assets | | | (150,000) |
| Deposits | | (79,999) | (100,207) |
| Accounts payable | (26,412) | 295,913 | 539,181 |
| Accrued liabilities | (186,313) | 34,369 | 246,121 |
| Deferred rent | 252 | (4,140) | 3,203 |
| Net cash used in operating activities | (6,991,897) | (4,150,933) | (17,038,374) |
| Cash flows from investing activities: | | | |
| Purchase of fixed assets | (22,734) | (2,070) | (476,350) |
| Cash flows from financing activities: | | | |
| Proceeds from the sale of common stock | | 2,360,000 | 15,000,000 |
| Proceeds from the exercise of common stock warrants | | 1,925,000 | 3,895,000 |
| Proceeds from the exercise of common stock options | | | 8,700 |
| Fundraising costs | (36,809) | (261,788) | (1,198,408) |
| Proceeds from the sale of common stock to initial investors | | | 310,000 |
| Proceeds from bridge loan | | | 200,000 |
| Repayment of bridge loan | | | (200,000) |
| Principal payments on capital lease | (2,509) | (1,849) | (7,605) |
| Net cash provided by (used in) financing activities | (39,318) | 4,021,363 | 18,007,687 |
| Net increase (decrease) in cash and cash equivalents | (7,053,949) | (131,640) | 492,963 |
| Cash and cash equivalents, beginning of period | 7,546,912 | 2,627,072 | |
| Cash and cash equivalents, end of period | \$ 492,963 | \$ 2,495,432 | \$ 492,963 |

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Supplemental disclosure of non-cash financing activities:

| | | | |
|--|-----------|--------------|--------------|
| Acquisition of equipment in exchange for capital lease | \$ 14,006 | \$ | \$ 21,403 |
| Notes receivable issued in exchange for common stock | \$ | \$ | \$ 110,000 |
| Common stock issued for a finder's fee | \$ | \$ 102,000 | \$ 102,000 |
| Common stock issued in asset purchase | \$ | \$ 2,898,624 | \$ 2,898,624 |

The accompanying notes are an integral part of these financial statements.

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RAPTOR PHARMACEUTICALS CORP.

(A Development Stage Company)

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

(1) NATURE OF OPERATIONS AND BUSINESS RISKS

The accompanying condensed consolidated financial statements reflect the results of operations of Raptor Pharmaceuticals Corp. (the Company or Raptor) and have been prepared in accordance with the accounting principles generally accepted in the United States of America.

Raptor is a publicly-traded biotechnology company dedicated to speeding the delivery of new treatment options to patients by enhancing existing therapeutics through the application of highly specialized drug targeting platforms and formulation expertise. The Company focuses on underserved patient populations where it can have the greatest potential impact. Raptor's preclinical division bioengineers novel drug candidates and drug-targeting platforms derived from the human receptor-associated protein (RAP) and related proteins, while Raptor's clinical division advances clinical-stage product candidates towards marketing approval and commercialization. Raptor's clinical programs include ConviviTM for the potential treatment of aldehyde dehydrogenase (ALDH2) deficiency and DR Cysteamine for the potential treatment of nephropathic cystinosis, non-alcoholic steatohepatitis (NASH), and Huntington's Disease. Raptor's preclinical programs target cancer, neurodegenerative disorders and infectious diseases. HepTide is designed to utilize engineered RAP-based peptides conjugated to drugs to target delivery to the liver to potentially treat primary liver cancer and hepatitis. NeuroTrans represents engineered RAP peptides created to target receptors in the brain and are currently undergoing preclinical evaluation for their ability to enhance the transport of therapeutics across the blood-brain barrier. WntTide is based upon Mesd and Mesd peptides that the Company is studying in a preclinical breast cancer model for WntTide's potential inhibition of Wnt signaling through LRP5, which may block cancers dependent on signaling through LRP5 or LRP6. The Company's fiscal year end is August 31.

The Company is subject to a number of risks, including: the need to raise capital through equity and/or debt financings; the uncertainty whether the Company's research and development efforts will result in successful commercial products; competition from larger organizations; reliance on licensing proprietary technology of others; dependence on key personnel; uncertain patent protection; and dependence on corporate partners and collaborators.

See the section titled "Risk Factors" in this joint proxy statement/prospectus.

(2) SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

(a) Basis of Presentation

The Company's condensed consolidated financial statements include the accounts of the Company's wholly owned subsidiaries, Raptor Pharmaceutical Inc. and Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) incorporated in Delaware on September 8, 2005 (date of inception) and August 1, 2007, respectively. All inter-company accounts have been eliminated. The Company's condensed consolidated financial statements have been prepared on a going concern basis, which contemplates the realization of assets and the settlement of liabilities and commitments in the normal course of business. Through May 31, 2009, the Company had accumulated losses of approximately \$19.9 million. Management expects to incur further losses for the foreseeable future. Management believes that the Company's cash and cash equivalents at May 31, 2009 plus cash anticipated to be received by July 17, 2009 from the exercise of re-priced warrants and cash expected to be received by July 31, 2009 from a current financing will be sufficient to meet the Company's obligations into the first calendar quarter of 2010. The Company's cash and cash equivalents as of July 15, 2009, will be sufficient to meet its minimum obligations into the fourth calendar quarter of 2009. The Company is currently in the process of reviewing strategic partnerships, collaborations and merger candidates in order to fully fund its preclinical and clinical

Table of Contents**RAPTOR PHARMACEUTICALS CORP.****(A Development Stage Company)****NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS**

programs through the end of 2010. If the Company is not able to close a strategic transaction, the Company anticipates raising additional capital in the fourth calendar quarter of 2009. Until the Company can generate sufficient levels of cash from its operations, the Company expects to continue to finance future cash needs primarily through proceeds from equity or debt financings, loans and collaborative agreements with corporate partners or through a business combination with a company that has such financing in order to be able to sustain its operations until the Company can achieve profitability and positive cash flows, if ever.

The Company's independent registered public accounting firm has audited our consolidated financial statements for the years ended August 31, 2008 and 2007. The October 28, 2008 audit opinion included a paragraph indicating substantial doubt as to the Company's ability to continue as a going concern due to the fact that the Company is in the development stage and has not generated any revenue to date.

Management plans to seek additional debt and/or equity financing for the Company through private or public offerings or through a business combination or strategic partnership, but it cannot assure that such financing or transaction will be available on acceptable terms, or at all. The uncertainty of this situation raises substantial doubt about the Company's ability to continue as a going concern. The accompanying condensed consolidated financial statements do not include any adjustments that might result from the failure to continue as a going concern.

(b) Use of Estimates

The preparation of financial statements in conformity with United States generally accepted accounting principles requires management to make certain estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities as of the dates of the condensed consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

(c) Fair Value of Financial Instruments

The carrying amounts of certain of the Company's financial instruments including cash and cash equivalents, prepaid expenses, accounts payable, accrued liabilities and capital lease liability approximate fair value due to their short maturities.

(d) Segment Reporting

The Company has determined that it operates in two operating segments, preclinical development and clinical development. Operating segments are components of an enterprise for which separate financial information is available and are evaluated regularly by the Company in deciding how to allocate resources and in assessing performance. The Company's chief executive officer assesses the Company's performance and allocates its resources. Below is a break-down of the Company's net loss and total assets by operating segment:

| | For the three month periods | | | | | |
|--------------|------------------------------|----------------|----------------|------------------------------|----------------|----------------|
| | from March 1 to May 31, 2009 | | | from March 1 to May 31, 2008 | | |
| | Preclinical | Clinical | Total | Preclinical | Clinical | Total |
| Net loss | \$ (778,853) | \$ (1,785,793) | \$ (2,564,646) | \$ (937,785) | \$ (1,193,670) | \$ (2,131,455) |
| Total assets | 434,515 | 3,044,070 | 3,478,585 | 2,994,411 | 2,721,517 | 5,715,928 |

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(A Development Stage Company)

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

| | For the nine month periods | | | | | |
|--------------|--|----------------|----------------|--|----------------|----------------|
| | from September 1, 2008 to May 31, 2009 | | | from September 1, 2007 to May 31, 2008 | | |
| | Preclinical | Clinical | Total | Preclinical | Clinical | Total |
| Net loss | \$ (2,384,237) | \$ (4,890,243) | \$ (7,274,480) | \$ (2,776,682) | \$ (2,744,839) | \$ (5,521,521) |
| Total assets | 434,515 | 3,044,070 | 3,478,585 | 2,994,411 | 2,721,517 | 5,715,928 |

(e) Cash and Cash Equivalents

The Company considers all highly liquid investments with original maturities of three months or less to be cash equivalents.

(f) Intangible Assets

Intangible assets include the intellectual property and other rights relating to DR Cysteamine and to the RAP technology. The intangible assets are amortized using the straight-line method over the estimated useful life of 20 years, which is the life of the intellectual property patents. The 20 year estimated useful life is also based upon the typical development, approval, marketing and life cycle management timelines of pharmaceutical drug products.

(g) Fixed Assets

Fixed assets, which mainly consist of leasehold improvements, lab equipment, computer hardware and software and capital lease equipment, are stated at cost. Depreciation is computed using the straight-line method over the related estimated useful lives, except for leasehold improvements and capital lease equipment, which are depreciated over the shorter of the useful life of the asset or the lease term. Significant additions and improvements that have useful lives estimated at greater than one year are capitalized, while repairs and maintenance are charged to expense as incurred.

(h) Impairment of Long-Lived Assets

The Company evaluates its long-lived assets for indicators of possible impairment by comparison of the carrying amounts to future net undiscounted cash flows expected to be generated by such assets when events or changes in circumstances indicate the carrying amount of an asset may not be recoverable. Should an impairment exist, the impairment loss would be measured based on the excess carrying value of the asset over the asset's fair value or discounted estimates of future cash flows. The Company has not identified any such impairment losses to date.

(i) Income Taxes

Income taxes are recorded under the liability method, under which deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to affect taxable income. Valuation allowances are established when necessary to reduce deferred tax assets to the amount expected to be realized.

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The Company is an early development stage company. Research and development costs are charged to expense as incurred. Research and development expenses include scientists' salaries, lab collaborations, preclinical studies, clinical trials, clinical trial materials, regulatory and clinical consultants, lab supplies, lab services, lab equipment maintenance and small equipment purchased to support the research laboratory, amortization of intangible assets and allocated executive, human resources and facilities expenses.

(k) In-Process Research and Development

The Company records in-process research and development expense for a product candidate acquisition where there is not more than one potential product or usage for the assets being acquired. The Company reviews each product candidate acquisition to determine if the purchase price should be expensed as in-process research and development or capitalized and amortized over the life of the asset.

(l) Net Loss per Share

Net loss per share is calculated by dividing net loss by the weighted average shares of common stock outstanding during the period. Diluted net income per share is calculated by dividing net income by the weighted average shares of common stock outstanding and potential shares of common stock during the period. For all periods presented, potentially dilutive securities are excluded from the computation of fully diluted net loss per share as their effect is anti-dilutive. Potentially dilutive securities include:

| | May 31, | |
|--|-------------------|------------------|
| | 2009 | 2008 |
| Warrants to purchase common stock | 13,258,276 | 4,013,876 |
| Options to purchase common stock | 4,243,227 | 3,605,727 |
| Total potentially dilutive securities | 17,501,503 | 7,619,603 |

(m) Stock Option Plans

Effective September 1, 2006, the Company adopted the provisions of Statement of Financial Accounting Standards (SFAS) No. 123 (revised 2004), *Share-Based Payment* (SFAS 123R) in accounting for its 2006 Equity Incentive Plan, as amended. Under SFAS 123R, compensation cost is measured at the grant date based on the fair value of the equity instruments awarded and is recognized over the period during which an employee is required to provide service in exchange for the award, or the requisite service period, which is usually the vesting period. The fair value of the equity award granted is estimated on the date of the grant. The Company previously applied Accounting Principles Board (APB) Opinion No. 25, *Accounting for Stock Issued to Employees*, and related interpretations and provided the required pro forma disclosures required by SFAS No. 123, *Accounting for Stock-Based Compensation*. See Note 7, *Stock Option Plan* for further discussion of employee stock-based compensation.

(n) Recent Accounting Pronouncements

In September 2006, the Financial Accounting Standards Board (FASB) issued SFAS No. 157, *Fair Value Measurements* (SFAS 157). SFAS 157 defines fair value, establishes a framework for measuring fair value in

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RAPTOR PHARMACEUTICALS CORP.

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NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

accordance with generally accepted accounting principles, and expands disclosures about fair value measurements. SFAS 157 does not require any new fair value measurements; rather, it applies under other accounting pronouncements that require or permit fair value measurements. The provisions of SFAS 157 are to be applied prospectively as of the beginning of the fiscal year in which it is initially applied, with any transition adjustment recognized as a cumulative-effect adjustment to the opening balance of retained earnings. The provisions of SFAS 157 are effective for fiscal years beginning after November 15, 2007; therefore, the Company adopted SFAS 157 as of September 1, 2008 for financial assets and liabilities. In accordance with FASB Staff Position 157-2, *Effective Date of FASB Statement No. 157*, the Company elected to defer the adoption of the provisions of SFAS 157 for its non-financial assets and non-financial liabilities. The Company has determined that SFAS 157 had no material impact on its financial position for the three and nine month periods ended May 31, 2009.

In February 2007, the FASB issued SFAS 159, *The Fair Value Option for Financial Assets and Financial Liabilities, Including an Amendment of FASB Statement No. 115*, which permits the measurement of many financial instruments and certain other asset and liabilities at fair value on an instrument-by-instrument basis (the fair value option). The guidance is applicable for fiscal years beginning after November 15, 2007; therefore, the Company adopted SFAS 159 as of September 1, 2008. The Company has determined that SFAS 159 had no material impact for the three and nine month periods ended May 31, 2009.

In June 2007, the Emerging Issues Task Force (EITF) reached a consensus on EITF No. 07-3, *Accounting for Nonrefundable Advance Payments for Goods or Services to Be Used in Future Research and Development Activities* (EITF 07-3). EITF 07-3 specifies the timing of expense recognition for non-refundable advance payments for goods or services that will be used or rendered for research and development activities. EITF 07-3 was effective for fiscal years beginning after December 15, 2007, and early adoption is not permitted; therefore, the Company adopted EITF 07-3 as of September 1, 2008. The Company has determined that EITF 07-3 had no material impact on its financial results for the three and nine month periods ended May 31, 2009.

In December 2007, the EITF reached a consensus on EITF No. 07-1, *Accounting for Collaborative Arrangements Related to the Development and Commercialization of Intellectual Property* (EITF 07-1). EITF 07-1 discusses the appropriate income statement presentation and classification for the activities and payments between the participants in arrangements related to the development and commercialization of intellectual property. The sufficiency of disclosure related to these arrangements is also specified. EITF 07-1 is effective for fiscal years beginning after December 15, 2008. As a result, EITF 07-1 is effective for the Company as of September 1, 2009. The Company is currently evaluating the impact of EITF 07-1 on its financial position and results of operations. Based upon the nature of the Company's business, EITF 07-1 could have a material impact on its financial position and consolidated results of operations in future years.

In December 2007, FASB issued Statement No. 141 (Revised 2007), *Business Combinations* (SFAS 141(R)) and SFAS No. 160, *Accounting and Reporting of Non-controlling Interests in Consolidated Financial Statements*, an amendment of ARB No. 51 (SFAS 160). These statements will significantly change the financial accounting and reporting of business combination transactions and non-controlling (or minority) interests in consolidated financial statements. SFAS 141(R) requires companies to: (i) recognize, with certain exceptions, 100% of the fair values of assets acquired, liabilities assumed, and non-controlling interests in acquisitions of less than a 100% controlling interest when the acquisition constitutes a change in control of the acquired entity; (ii) measure acquirer shares issued in consideration for a business combination at fair value on the acquisition date; (iii) recognize contingent consideration arrangements at their acquisition-date fair values, with subsequent changes in fair value generally reflected in earnings; (iv) with certain exceptions, recognize pre-acquisition loss and gain contingencies at their acquisition-date fair values; (v) capitalize in-process research

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NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

and development (IPR&D) assets acquired; (vi) expense, as incurred, acquisition-related transaction costs; (vii) capitalize acquisition-related restructuring costs only if the criteria in SFAS No. 146, *Accounting for Costs Associated with Exit or Disposal Activities*, are met as of the acquisition date; and (viii) recognize changes that result from a business combination transaction in an acquirer's existing income tax valuation allowances and tax uncertainty accruals as adjustments to income tax expense. SFAS 141(R) is required to be adopted concurrently with SFAS 160 and is effective for business combination transactions for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008 (our fiscal 2010). Early adoption of these statements is prohibited. The Company believes the adoption of these statements will have a material impact on significant acquisitions, if any, completed after September 1, 2009.

In March 2008, the FASB issued SFAS No. 161, *Disclosures about Derivative Instruments and Hedging Activities* (SFAS 161). This statement will require enhanced disclosures about derivative instruments and hedging activities to enable investors to better understand their effects on an entity's financial position, financial performance, and cash flows. It is effective for financial statements issued for fiscal years and interim periods beginning after November 15, 2008, with early application encouraged. The Company adopted SFAS 161 on December 1, 2008 and has determined that SFAS 161 had no material impact on its financial results for the three and nine month periods ended May 31, 2009.

In May 2008, FASB issued SFAS No. 162, *The Hierarchy of Generally Accepted Accounting Principles* (SFAS 162). This standard is intended to improve financial reporting by identifying a consistent framework, or hierarchy, for selecting accounting principles to be used in preparing financial statements that are presented in conformity with U.S. GAAP for non-governmental entities. SFAS No. 162 is effective 60 days following the U.S. Securities and Exchange Commission's approval of the Public Company Accounting Oversight Board amendments to AU Section 411, the meaning of Present Fairly in Conformity with GAAP . The Company is in the process of evaluating the impact, if any, of SFAS 162 on its condensed consolidated financial statements.

In May 2008, the FASB released FASB Staff Position (FSP) APB 14-1 *Accounting For Convertible Debt Instruments That May Be Settled in Cash Upon Conversion (Including Partial Cash Settlement)* (FSP APB 14-1) that alters the accounting treatment for convertible debt instruments that allow for either mandatory or optional cash settlements. FSP APB 14-1 specifies that issuers of such instruments should separately account for the liability and equity components in a manner that will reflect the entity's nonconvertible debt borrowing rate when interest cost is recognized in subsequent periods. Furthermore, it would require recognizing interest expense in prior periods pursuant to retrospective accounting treatment. FSP APB 14-1 is effective for financial statements issued for fiscal years beginning after December 15, 2008; therefore, the Company anticipates adopting FSP APB 14-1 as of September 1, 2009. The Company has determined it did not have a material impact on its condensed consolidated financial statements.

In June 2008, the FASB issued EITF No. 07-5 (EITF 07-5), *Determining Whether an Instrument (or Embedded Feature) is Indexed to an Entity's Own Stock*. EITF 07-5 requires entities to evaluate whether an equity-linked financial instrument (or embedded feature) is indexed to its own stock by assessing the instrument's contingent exercise provisions and settlement provisions. Instruments not indexed to their own stock fail to meet the scope exception of SFAS No. 133, *Accounting for Derivative Instruments and Hedging Activities*, paragraph 11(a), and should be classified as a liability and marked-to-market. The statement is effective for fiscal years beginning after December 15, 2008 and interim periods within those fiscal years and is to be applied to outstanding instruments upon adoption with the cumulative effect of the change in accounting principle recognized as an adjustment to the opening balance of retained earnings. The Company is adopting EITF 07-5 as of September 1, 2009 and is in the process of evaluating the impact, if any, of EITF 07-5 on its condensed consolidated financial statements.

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In April 2008, the FASB issued FSP SFAS No. 142-3, *Determination of the Useful Life of Intangible Assets* (FSP SFAS 142-3). FSP SFAS 142-3 provides guidance with respect to estimating the useful lives of recognized intangible assets acquired on or after the effective date and requires additional disclosure related to the renewal or extension of the terms of recognized intangible assets. FSP SFAS 142-3 is effective for fiscal years and interim periods beginning after December 15, 2008. The Company is adopting FSP SFAS 142-3 as of September 1, 2009 and is currently evaluating the impacts and disclosures of this standard, but does not expect FSP SFAS 142-3 to have a material impact on the Company's condensed consolidated financial statements.

In May 2009, the FASB issued SFAS No. 165, *Subsequent Events* (SFAS 165). SFAS 165 establishes general standards of accounting for and disclosure of events that occur after the balance sheet date but before financial statements are issued or are available to be issued. SFAS 165 is effective for fiscal years and interim periods ending after June 15, 2009. The Company is adopting SFAS 165 as of September 1, 2009 and does not expect it to have a material impact on the Company's condensed consolidated financial statements.

(3) INTANGIBLE ASSETS

On January 27, 2006, BioMarin Pharmaceutical Inc. (BioMarin) assigned the intellectual property and other rights relating to the RAP technology to the Company. As consideration for the assignment of the RAP technology, BioMarin will receive milestone payments based on certain financing and regulatory triggering events. No other consideration was paid for this assignment. The Company has recorded \$150,000 of intangible assets on the condensed consolidated balance sheets as of May 31, 2009 and August 31, 2008 based on the estimated fair value of its agreement with BioMarin.

On December 14, 2007, the Company acquired the intellectual property and other rights to develop DR Cysteamine to treat various indications from the University of California at San Diego (UCSD) by way of a merger with Encode Pharmaceuticals, Inc. (Encode), a privately held research and development company, which held the intellectual property license with UCSD. The intangible assets, recorded at approximately \$2.6 million acquired in the merger with Encode, were primarily based on the value of the Company's common stock and warrants issued to the Encode stockholders as reflected in the table below:

| | |
|--|---------------------|
| Raptor common stock issued (number of shares) | 3,444,297 |
| Raptor common stock issuable upon marketing approval by a regulatory agency of DR Cysteamine for Cystinosis (number of shares) | 351,359 |
| Total shares of common stock used to value the transaction | 3,795,656 |
| Average closing price of Raptor's common stock 2 days before and after the close of the merger | \$ 0.586 |
| Value of Raptor common stock portion of transaction | \$ 2,224,254 |
| Value (based on Carpenter model) of warrants issued in connection with transaction, net of legal fees | 395,746 |
| Intangible asset (IP license) related to the Encode merger, gross | \$ 2,620,000 |
| Intangible asset related to NeuroTrans TM purchase from BioMarin, gross | 150,000 |
| Total gross intangible assets | 2,770,000 |
| Less accumulated amortization | (210,583) |
| Intangible assets, net | \$ 2,559,417 |

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The intangible assets are being amortized monthly over 20 years, which are the life of the intellectual property patents and the estimated useful life. The 20 year estimated useful life is also based upon the typical development, approval, marketing and life cycle management timelines of pharmaceutical drug products. During the three month and nine month periods ended May 31, 2009 and 2008 and the cumulative period from September 8, 2005 (inception) to May 31, 2009, the Company amortized \$34,625, \$103,874, \$34,625, \$60,208, and \$210,583, respectively, of intangible assets to research and development expense.

The following table summarizes the actual and estimated amortization expense for our intangible assets for the periods indicated:

| Amortization period | Amortization expense |
|---|-----------------------------|
| September 8, 2005 (inception) to August 31, 2006 actual | \$ 4,375 |
| Fiscal year ending August 31, 2007 actual | 7,500 |
| Fiscal year ending August 31, 2008 actual | 94,833 |
| Fiscal year ending August 31, 2009 estimate | 138,500 |
| Fiscal year ending August 31, 2010 estimate | 138,500 |
| Fiscal year ending August 31, 2011 estimate | 138,500 |
| Fiscal year ending August 31, 2012 estimate | 138,500 |
| Fiscal year ending August 31, 2013 estimate | 138,500 |

(4) FIXED ASSETS

Fixed assets consisted of:

| Category | May 31, 2009 | August 31, 2008 | Estimated useful lives |
|--------------------------------|---------------------|------------------------|--|
| Leasehold improvements | \$ 113,422 | \$ 113,422 | Shorter of life of asset or lease term |
| Office furniture | 3,188 | 3,188 | 7 years |
| Laboratory equipment | 277,303 | 277,303 | 5 years |
| Computer hardware and software | 80,437 | 59,703 | 3 years |
| Capital lease equipment | 14,006 | 7,397 | Shorter of life of asset or lease term |
| Total at cost | 488,356 | 461,013 | |
| Less: accumulated depreciation | (325,866) | (266,247) | |
| Total fixed assets, net | \$ 162,490 | \$ 194,766 | |

Depreciation expense for the three and nine month periods ended May 31, 2009 and 2008 and the cumulative period from September 8, 2005 (inception) to May 31, 2009 was \$21,169, \$66,935, \$35,261, \$105,440 and \$333,182, respectively. Accumulated depreciation on capital lease equipment was \$2,873 and \$5,446 as of May 31, 2009 and August 31, 2008, respectively.

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(A Development Stage Company)

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS**(5) ACCRUED LIABILITIES**

Accrued liabilities consisted of:

| | May 31, 2009 | August 31, 2008 |
|-------------------------------------|--------------|-----------------|
| Consulting research and development | \$ 58,322 | \$ 7,578 |
| Accrued vacation | 40,524 | 17,728 |
| Milestone fees | 40,000 | |
| Legal fees | 38,670 | 51,503 |
| Salaries and wages | 30,801 | 44,165 |
| Auditing and tax preparation fees | 29,070 | 66,307 |
| Lab reagents | 8,734 | 27,024 |
| Preclinical studies | | 48,165 |
| Consulting administrative | | 30,000 |
| Clinical trial costs | | 114,514 |
| Patent costs | | 10,000 |
| Prepaid conference expense | | 5,490 |
| Other | | 9,960 |
| Total accrued liabilities | \$ 246,121 | \$ 432,434 |

(6) IN-PROCESS RESEARCH AND DEVELOPMENT

On October 17, 2007, the Company purchased certain assets of Convivia, Inc. (Convivia) including intellectual property, know-how and research reports related to a product candidate targeting liver aldehyde dehydrogenase (ALDH2) deficiency, a genetic metabolic disorder. The Company issued an aggregate of 437,500 shares of its restricted, unregistered common stock to the seller and other third parties in settlement of the asset purchase. Pursuant to Financial Accounting Standard (FAS) 2 Paragraph 11(c), *Intangibles Purchased From Others*, the Company has expensed the value of the common stock issued in connection with this asset purchase as in-process research and development expense. The amount expensed was based upon the closing price of Raptor s common stock on the date of the closing of the asset purchase transaction of \$0.55 per share multiplied by the aggregate number of shares of Raptor common stock issued or 437,500 for a total expense of \$240,625 recorded on Raptor s condensed consolidated statement of operations during the nine month period ended May 31, 2008.

(7) STOCK OPTION PLAN

Effective September 1, 2006, the Company began recording compensation expense associated with stock options and other forms of equity compensation in accordance with SFAS 123R, as interpreted by Staff Accounting Bulletin No. 107 (SAB 107). Prior to September 1, 2006, the Company accounted for stock options according to the provisions of Accounting Principles Board (APB) Opinion No. 25, *Accounting for Stock Issued to Employees*, and related interpretations, and therefore no related compensation expense was recorded for awards granted with no intrinsic value. The Company adopted the modified prospective transition method provided for under SFAS 123R, and consequently has not retroactively adjusted results from prior periods. Under this transition method, compensation cost associated with stock options now includes: (1) quarterly amortization related to the remaining unvested portion of all stock option awards granted prior to September 1, 2006, based on the grant date value estimated in accordance with the original provisions of SFAS 123; and (2) quarterly amortization related to all stock option awards granted subsequent to September 1, 2006, based on the grant date

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fair value estimated in accordance with the provisions of SFAS 123R. In addition, the Company records consulting expense over the vesting period of stock options granted to consultants. The compensation expense for stock-based compensation awards includes an estimate for forfeitures and is recognized over the requisite service period of the options, which is typically the period over which the options vest, using the straight-line method. The Company accounts for stock options issued to third parties, including consultants, in accordance with the provisions of the EITF Issue No. 96-18, *Accounting for Equity Instruments That Are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling Goods or Services*.

Employee stock-based compensation expense for the three and nine month periods ended May 31, 2009 and 2008 and for the cumulative period from September 8, 2005 (inception) to May 31, 2009 was \$107,165, \$332,456, \$109,295, \$377,613, and \$1,192,989 of which cumulatively \$1,011,731 was included in general and administrative expense and \$181,258 was included in research and development expense. No employee stock compensation costs were recognized for the period from September 8, 2005 (inception) to August 31, 2006, which was prior to the Company's adoption of SFAS 123R.

Stock-based compensation expense was based on the Black-Scholes option-pricing model assuming the following:

| Period* | Risk-free interest rate | Expected life of stock option | Annual volatility | Annual turnover rate |
|--|--------------------------------|--------------------------------------|--------------------------|-----------------------------|
| September 8, 2005 (inception) to August 31, 2006** | 5% | 10 years | 100% | 0% |
| Quarter ended November 30, 2006 | 5% | 8 years | 100% | 10% |
| Quarter ended February 28, 2007 | 5% | 8 years | 100% | 10% |
| Quarter ended May 31, 2007 | 5% | 8 years | 100% | 10% |
| Quarter ended August 31, 2007 | 4% | 8 years | 100% | 10% |
| Quarter ended November 30, 2007 | 3.75% | 8 years | 109% | 10% |
| Quarter ended February 29, 2008 | 2% | 8 years | 119% | 10% |
| Quarter ended May 31, 2008 | 2% | 8 years | 121% | 10% |
| Quarter ended August 31, 2008 | 2.5% | 8 years | 128% | 10% |
| Quarter ended November 30, 2008 | 1.5% | 7 years | 170% | 10% |
| Quarter ended February 28, 2009 | 2.0% | 7 years | 220% | 10% |
| Quarter ended May 31, 2009 | 2.6% | 7 years | 233% | 10% |

* Dividend rate is 0% for all period presented.

** Stock-based compensation expense was recorded on the condensed consolidated statements of operations commencing on the effective date of SFAS 123R, September 1, 2006. Prior to September 1, 2006, stock based compensation was reflected only in the footnotes to the condensed consolidated statements of operations, with no effect on the condensed consolidated statements of operations, per the guidelines of APB No. 25. Consultant stock-based compensation expense has been recorded on the condensed consolidated statements of operations since inception.

If factors change and different assumptions are employed in the application of SFAS 123R, the compensation expense recorded in future periods may differ significantly from what was recorded in the current period.

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The Company recognizes as an expense the fair value of options granted to persons who are neither employees nor directors. The fair value of expensed options was based on the Black-Scholes option-pricing model assuming the same factors shown in the stock-based compensation expense table above. Stock-based compensation expense for consultants for the three and nine month periods ended May 31, 2009 and 2008 and for the cumulative period from September 8, 2005 (inception) to May 31, 2009, were \$16,910, \$39,705, \$12,293, \$220,780 and \$399,225, respectively, of which cumulatively \$101,836 was included in general and administrative expense and \$297,389 was included in research and development expense.

A summary of the activity in the 2006 Equity Compensation Plan, as amended, is as follows:

| | Option shares | Weighted average exercise price | Exercisable | Weighted average fair value of options granted |
|----------------------------------|---------------|---------------------------------|-------------|--|
| Outstanding at September 8, 2005 | | | | |
| Granted | 2,488,400 | \$ 0.62 | | \$ 0.48 |
| Exercised | | | | |
| Canceled | | | | |
| Outstanding at August 31, 2006 | 2,488,400 | \$ 0.62 | 17,200 | \$ 0.61 |
| Granted | 460,900 | \$ 0.60 | | \$ 0.52 |
| Exercised | (14,500) | \$ 0.60 | | \$ 0.52 |
| Canceled | | | | |
| Outstanding at August 31, 2007 | 2,934,800 | \$ 0.61 | 1,172,081 | \$ 0.53 |
| Granted | 958,427 | \$ 0.53 | | \$ 0.51 |
| Exercised | | | | |
| Canceled | | | | |
| Outstanding at August 31, 2008 | 3,893,227 | \$ 0.59 | 2,577,347 | \$ 0.56 |
| Granted | 75,000 | \$ 0.25 | | \$ 0.24 |
| Exercised | | | | |
| Canceled | | | | |
| Outstanding at November 30, 2008 | 3,968,227 | \$ 0.59 | 2,848,221 | \$ 0.55 |
| Granted | 125,000 | \$ 0.35 | 31,250 | \$ 0.30 |
| Exercised | | | | |
| Canceled | | | | |
| Outstanding at February 28, 2009 | 4,093,227 | \$ 0.58 | 3,167,279 | \$ 0.54 |
| Granted | 150,000 | \$ 0.20 | | \$ 0.20 |
| Exercised | | | | |
| Canceled | | | | |

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| | | | | |
|-----------------------------|-----------|---------|-----------|---------|
| Outstanding at May 31, 2009 | 4,243,227 | \$ 0.57 | 3,468,372 | \$ 0.53 |
|-----------------------------|-----------|---------|-----------|---------|

The weighted average intrinsic values of stock options outstanding and stock options exercisable as of May 31, 2009 and 2008 were \$23,250, \$766, \$0 and \$0, respectively.

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There were 1,742,273 options available for grant under the 2006 Equity Compensation Plan, as amended, as of May 31, 2009. As of May 31, 2009, the options outstanding consisted of the following:

| Range of exercise prices | Options outstanding | | Options exercisable | | |
|--------------------------|-----------------------------------|--|--------------------------------------|-----------------------------------|--------------------------------------|
| | Number of options outstanding (#) | Weighted average remaining contractual life (yrs.) | Weighted average exercise price (\$) | Number of options exercisable (#) | Weighted average exercise price (\$) |
| \$0 to \$0.60 | 3,654,827 | 7.80 | 0.55 | 2,879,972 | 0.58 |
| \$0.601 to \$0.70 | 588,400 | 7.00 | 0.67 | 588,400 | 0.67 |
| | 4,243,227 | 7.69 | 0.57 | 3,468,372 | 0.60 |

At May 31, 2009, the total unrecognized compensation cost was approximately \$222,000. The weighted average period over which it is expected to be recognized is two and three quarters years.

(8) ISSUANCE OF COMMON STOCK**ISSUANCE OF COMMON STOCK PURSUANT TO COMMON STOCK WARRANT EXERCISES AND STOCK OPTION EXERCISES**

During the cumulative period from September 8, 2005 (inception) through May 31, 2009, the Company received \$3.895 million from the exercises of common stock warrants issued in the Company's May 2006 financing. The Company issued an aggregate of 6,491,667 shares of common stock for the warrants, which had an exercise price of \$0.60 per share and expired on November 25, 2007.

During the cumulative period from September 8, 2005 (inception) through May 31, 2009, the Company received \$8,700 from the exercise of stock options resulting in the issuance of 14,500 shares of common stock. Total common stock outstanding as of May 31, 2009 was 60,430,047 shares.

ISSUANCE OF COMMON STOCK PURSUANT TO AN ASSET PURCHASE AGREEMENT WITH CONVIVIA, INC.

On October 18, 2007, the Company purchased certain assets of Convivia, Inc. (Convivia) including intellectual property, know-how and research reports related to a product candidate targeting liver aldehyde dehydrogenase (ALDH2) deficiency, a genetic metabolic disorder. The Company hired Convivia's chief executive officer and founder, Thomas E. (Ted) Daley, as President of its clinical division. In exchange for the assets related to the ALDH2 deficiency program, the Company issued to Convivia 200,000 shares of its restricted, unregistered common stock, an additional 200,000 shares of its restricted, unregistered common stock to a third party in settlement of a convertible loan between the third party and Convivia, and another 37,500 shares of restricted, unregistered common stock in settlement of other obligations of Convivia. Mr. Daley, as the former sole stockholder of Convivia (now dissolved), may earn additional shares of the Company based on certain triggering events or milestones related to the development of Convivia assets. In addition, Mr. Daley may earn cash bonuses based on the same triggering events pursuant to his employment agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement for executing the Patheon formulation agreement for manufacturing Convivia™. In March 2008, Mr. Daley earned a \$10,000 cash bonus pursuant to his employment agreement and was issued 100,000 shares of valued at \$56,000 based on the

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execution of an agreement to supply the Company with the active pharmaceutical ingredient for Convivia™ pursuant to the asset purchase agreement. In October 2008, Mr. Daley was issued 100,000 shares of restricted Raptor common stock valued at \$27,000 and earned a \$30,000 cash bonus (pursuant to Mr. Daley's employment agreement) pursuant to the fulfillment of a clinical milestone. Pursuant to FAS 2, Paragraph 11(c), the accounting guidelines for expensing research and development costs, the Company has expensed the value of the stock issued in connection with this asset purchase (except for milestone bonuses, which are expensed as compensation expense) as in-process research and development expense in the amount of \$240,625 on its condensed consolidated statement of operations for the nine month period ended May 31, 2008.

MERGER OF RAPTOR'S CLINICAL DEVELOPMENT SUBSIDIARY AND ENCODE PHARMACEUTICALS, INC.

On December 14, 2007, the Company entered into a Merger Agreement (the "Merger Agreement"), dated as of the same date, by and between the Company, its clinical development subsidiary and Encode Pharmaceuticals, Inc. ("Encode"), a privately held development stage company. Pursuant to the Merger Agreement, a certificate of merger was filed with the Secretary of State of the State of Delaware and Encode was merged with and into the Company's clinical development subsidiary. The existence of Encode ceased as of the date of the Merger Agreement. Pursuant to the Merger Agreement and the certificate of merger, the Company's clinical development subsidiary, as the surviving corporation, continued as a wholly-owned subsidiary of the Company. Under the terms of and subject to the conditions set forth in the Merger Agreement, the Company issued 3,444,297 shares of restricted, unregistered shares of the Company's common stock, par value \$.001 per share (the "Common Stock") to the stockholders of Encode (the "Encode Stockholders"), options ("Company Options") to purchase 357,427 shares of Common Stock to the optionholders of Encode (the "Encode Optionholders"), and warrants ("Company Warrants") to purchase 1,098,276 restricted, unregistered shares of Common Stock to the warrantholders of Encode (the "Encode Warranholders"), and together with the Encode Stockholders and Encode Optionholders, the "Encode Securityholders"), as of the date of such Agreement. Such Common Stock, Company Options to purchase Common Stock, and Company Warrants to purchase Common Stock combine for an aggregate amount of 4.9 million shares of Common Stock issuable to the Encode Securityholders as of the closing of the Merger. The purchase price was valued at \$2.6 million, which is reflected as intangible assets on the Company's consolidated balance sheet as of August 31, 2008, primarily based on the value the Company's common stock and warrants issued to Encode stockholders. The Encode Securityholders are eligible to receive up to an additional 2.4 million shares of Common Stock, Company Options and Company Warrants to purchase Common Stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program described below, if completed within the five year anniversary date of the Merger Agreement. The Company recorded this transaction as an asset purchase rather than a business combination, as Encode had not commenced planned principle operations, such as generating revenues from its drug product candidate.

As a result of the Merger, the Company received the exclusive worldwide license to DR Cysteamine ("License Agreement"), developed by clinical scientists at the UCSD, School of Medicine. DR Cysteamine is a proprietary enterically coated formulation of cysteamine bitartrate, a cystine depleting agent currently approved by the U.S. Food and Drug Administration ("FDA"). Cysteamine bitartrate is prescribed for the management of the genetic disorder known as nephropathic cystinosis ("cystinosis"), a lysosomal storage disease. The active ingredient in DR Cysteamine has also demonstrated potential in studies as a treatment for other metabolic and neurodegenerative diseases, such as Huntington's Disease and Non-alcoholic steatohepatitis ("NASH").

In consideration of the grant of the license, prior to the merger, Encode paid an initial license fee and the Company will be obligated to pay an annual maintenance fee until it begins commercial sales of any products

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developed pursuant to the License Agreement. In addition to the maintenance fee, the Company will be obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year the Company begins commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, the Company is obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. To the extent that the Company fails to perform any of the obligations, UCSD may terminate the license or otherwise cause the license to become non-exclusive. As of May 31, 2009, the Company accrued \$40,000 due to UCSD for the milestone related to the first patient dosing in the NASH trial which commenced in October 2008.

ISSUANCES OF COMMON STOCK AND WARRANTS IN CONNECTION WITH THE SALE OF UNITS IN A PRIVATE PLACEMENT

On May 21, 2008 (the Initial Closing) Raptor entered into a Securities Purchase Agreement (the Purchase Agreement), with eight investors (the Initial Investors) for the private placement of units of the Company, each unit comprised of one share of Raptor's Common Stock and one warrant to purchase one half of one share of Raptor's Common Stock, at a purchase price of \$0.50 per unit. Immediately subsequent to the Initial Closing, the Company and each Initial Investor entered into an Amendment to the Securities Purchase Agreement, principally in order to increase the amount able to be raised by the Company in the private placement and to extend the outside closing date of such private placement (the Amendment), and, together with the Purchase Agreement, the Amended Purchase Agreement), dated as of May 21, 2008.

At the Initial Closing, the Company sold an aggregate of 4,420,000 shares of Common Stock (the Initial Shares) to the Initial Investors for aggregate gross proceeds of \$2,210,000 and issued to the Initial Investors warrants (the Initial Warrants). The Initial Warrants, exercisable for two years from the Initial Closing, entitle the Initial Investors to purchase up to an aggregate of 2,210,000 shares of Common Stock of the Company (the Initial Warrant Stock) and have an exercise price of either \$0.75 or \$0.90 per share, depending on when such Initial Warrants are exercised, if at all and were valued at approximately \$675,000.

Pursuant to the Amended Purchase Agreement, the Company agreed to prepare and file a registration statement (the Registration Statement) within 60 days after the Initial Closing with the Securities and Exchange Commission under the Securities Act, on a Form S-1, covering the Shares and Warrant Stock sold pursuant to the Amended Purchase Agreement (the Restricted Stock) as well as Common Stock underlying warrants issued to placement agents each subject to volume limitations, and to use its commercially reasonable efforts to cause the Registration Statement to become effective with the SEC thereafter and to remain effective until the earlier to occur of the date (i) that is the second anniversary of the Initial Closing, (ii) the date the Restricted Securities may be sold under Rule 144 during any 90-day period and (iii) such time as all of the Restricted Securities have been publicly sold. The Company filed the Form S-1 in July 2008, which the SEC declared effective on August 7, 2008.

Following the effectiveness of the Registration Statement, the Company may, at any time, but no more than twice during any 12-month period, suspend the effectiveness of such registration for up to 45 calendar days, as appropriate (a Suspension Period), by giving notice to the holders of shares of Restricted Stock, if the Company shall have determined that the Company may be required to disclose any material corporate development which disclosure may have a material adverse effect on the Company.

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On May 30, 2008 Raptor sold an additional \$150,000 of units at the same terms as outlined in the May 21, 2008 closing discussed above. As a result, the Company issued 300,000 shares of the Company's Common Stock and warrants to purchase 150,000 shares of the Company's Common Stock valued at approximately \$40,000.

On June 27, 2008 Raptor sold an additional \$7,640,000 of units at the same terms as outlined in the May 21, 2008 closing discussed above. As a result, the Company issued 15,280,000 shares of the Company's Common Stock and warrants to purchase 7,640,000 shares of the Company's Common Stock valued at approximately \$2.3 million.

In connection with the May / June 2008 private placement, the Company issued warrants and a cash fee to placement agents to compensate them for placing investors into the financing. Placement agents were issued warrants exercisable for 7% of Common Stock issued and issuable under the warrants issued to investors as part of the financing units and a cash fee based upon the proceeds of the sale of the units of the private placement. In connection with the sale of units, the Company issued placement agent warrants to purchase 2,100,000 shares of Raptor's Common Stock at an exercise price of \$0.55 per share for a five year term (valued at approximately \$960,000 using the Black-Scholes method) and cash fees to placement agents totaling \$700,000. Of the placement agents compensated, Limetree Capital was issued warrants to purchase 1,882,650 shares of Raptor's Common Stock and cash commission of \$627,550. One of our Board members serves on the board of Limetree Capital.

On April 29, 2009, in order to reflect current market prices, the Company notified the holders of warrants purchased in the May/June 2008 private placement that the Company was offering, in exchange for such warrants, new warrants to purchase Raptor's common stock at an exercise price of \$0.30 per share, but only to the extent such exchange and exercise, including the delivery of the exercise price, occur prior to or on July 17, 2009. If the exchange and exercise do not occur by that date, then the original, unexercised warrants with an exercise price of \$0.90 per share remain in place in accordance with the warrant agreement and such original, unexercised warrants will retain their original expiration date of May 21, 2010.

The following is a summary of common stock outstanding as of May 31, 2009:

| Transaction | Date | Common Stock Issued |
|---|-----------------------|--------------------------------|
| Founders' shares | Sept. 2005 | 6,000,000 |
| Seed round | Feb. 2006 | 2,000,000 |
| PIPE concurrent with reverse merger | May 2006 | 8,333,333 |
| Shares issued in connection with reverse merger | May 2006 | 13,300,000 |
| Warrant exercises | Jan. - Nov. 2007 | 6,491,667 |
| Stock option exercises | Mar. 2007 | 14,500 |
| Loan finder's fee | Sept. 2007 | 200,000 |
| Convivia asset purchase | Oct. 2007 - Nov. 2008 | 637,500 |
| Encode merger DR Cysteamine asset purchase | Dec. 2007 | 3,444,297 |
| Shares issued pursuant to consulting agreement | May 2008 | 8,750 |
| PIPE initial tranche | May 2008 | 4,420,000 |
| PIPE second tranche | May 2008 | 300,000 |
| PIPE third tranche | June 2008 | 15,280,000 |
| Total shares of common stock outstanding | | 60,430,047 |

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The table reflects the number common stock warrants outstanding as of May 31, 2009:

| Summary of outstanding warrants: | Number of shares exercisable | Exercise price | Expiration date |
|---|---|-----------------------|----------------------------|
| Issued in lieu of deferred legal fees | 60,000 | \$ 0.60 | 2/13/2011 |
| Issued in connection with Encode merger | 97,480 | \$ 0.56 | 12/13/2015 |
| Issued in connection with Encode merger | 1,000,796 | \$ 0.67 | 12/13/2015 |
| Issued to PIPE investors in May / June 2008 | 10,000,000 | \$ 0.75 / \$0.90* | 5/21/2010 |
| Issued to placement agents in May / June 2008 | 2,100,000 | \$ 0.55 | 5/21/2013 |
| Total warrants outstanding | 13,258,276 | \$ 0.70** | |

* First year exercisable at \$0.75; second year exercisable at \$0.90; from April 29, 2009 to July 17, 2009 warrants that were exercised during this period and for which the Company received the exercise price payment were re-priced to \$0.30

** Average exercise price

(10) COMMITMENTS AND CONTINGENCIES**CONTRACTUAL OBLIGATIONS WITH BIOMARIN**

Pursuant to the terms of the asset purchase agreement the Company entered into with BioMarin Pharmaceutical Inc. (BioMarin) for the purchase of intellectual property related to our receptor-associated protein (RAP) based technology (including NeuroTrans™), we are obligated to make the following milestone payments to BioMarin upon the achievement of the following events:

\$50,000 (paid by the Company in June 2006) within 30 days after Raptor receives total aggregate debt or equity financing of at least \$2,500,000;

\$100,000 (paid by the Company in June 2006) within 30 days after Raptor receives total aggregate debt or equity financing of at least \$5,000,000;

\$500,000 upon the Company's filing and acceptance of an investigational new drug application for a drug product candidate based on the NeuroTrans™ product candidate;

\$2,500,000 upon the Company's successful completion of a Phase II human clinical trial for a drug product candidate based on the NeuroTrans™ product candidate;

\$5,000,000 upon the Company's successful completion of a Phase III human clinical trial for a drug product candidate based on the NeuroTrans™ product candidate;

\$12,000,000 within 90 days of the Company's obtaining marketing approval from the FDA or other similar regulatory agencies for a drug product candidate based on the NeuroTrans™ product candidate;

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\$5,000,000 within 90 days of the Company's obtaining marketing approval from the FDA or other similar regulatory agencies for a second drug product candidate based on the NeuroTrans™ product candidate;

\$5,000,000 within 60 days after the end of the first calendar year in which the Company's aggregated revenues derived from drug product candidates based on the NeuroTrans™ product candidate exceed \$100,000,000; and

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\$20,000,000 within 60 days after the end of the first calendar year in which the Company's aggregated revenues derived from drug product candidates based on the NeuroTrans™ product candidate exceed \$500,000,000.

In addition to these milestone payments, the Company is also obligated to pay BioMarin a royalty at a percentage of the Company's aggregated revenues derived from drug product candidates based on the NeuroTrans™ product candidate. On June 9, 2006, the Company made a milestone payment in the amount of \$150,000 to BioMarin because the Company raised \$5,000,000 in its May 25, 2006 private placement financing. If the Company becomes insolvent or if the Company breaches its asset purchase agreement with BioMarin due to non-payment and the Company does not cure its non-payment within the stated cure period, all of the Company's rights to the RAP technology (including NeuroTrans™) will revert back to BioMarin.

CONTRACTUAL OBLIGATIONS WITH THOMAS E. DALEY (ASSIGNEE OF THE DISSOLVED CONVIVIA, INC.)

Pursuant to the terms of the asset purchase agreement (Asset Purchase Agreement), the Company entered into with Convivia, Inc. and Thomas E. Daley for the purchase of intellectual property related to its 4-MP product candidate program, Mr. Daley will be entitled to receive the following, if at all, in such amounts and only to the extent certain future milestones are accomplished by the Company (or any of its subsidiaries thereof), as set forth below:

100,000 shares of Raptor's restricted, unregistered Common Stock within fifteen (15) days after the Company enters into a manufacturing license or other agreement to produce any product that is predominantly based upon or derived from any assets purchased from Convivia (Purchased Assets) in quantity (Product) if such license agreement is executed within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 50,000 shares of Raptor's restricted, unregistered Common Stock. Should the Company obtain a second such license or agreement for a Product, Mr. Daley will be entitled to receive 50,000 shares of the Company's restricted, unregistered Common Stock within 30 days of execution of such second license or other agreement. On March 31, 2008, the Company issued 100,000 shares of Raptor's Common Stock valued at \$56,000 to Mr. Daley pursuant to this milestone reflecting the execution of an agreement to supply the active pharmaceutical ingredient for Convivia™, combined with the execution of a formulation agreement to produce the oral formulation of Convivia™.

100,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after it receives its first patent allowance on any patents which constitute part of the Purchased Assets in any one of certain predetermined countries (Major Market).

50,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after the Company receives its second patent allowance on any patents which constitute part of the Purchased Assets different from the patent referenced in the immediately preceding bullet point above in a Major Market.

100,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days of completing predetermined benchmarks in a Major Market by the Company or its licensee of the first phase II human clinical trial for a Product (Successful Completion) if such Successful Completion occurs within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 50,000 shares of the Company's restricted, unregistered Common Stock within thirty (30) days of such Successful Completion. In October 2008, the Company issued 100,000 shares of Raptor's Common Stock valued at \$27,000 and a \$30,000 cash bonus (pursuant to Mr. Daley's employment agreement) to Mr. Daley pursuant to the fulfillment of this milestone.

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RAPTOR PHARMACEUTICALS CORP.

(A Development Stage Company)

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

50,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days of a Successful Completion in a Major Market by the Company or its licensee of the second phase II human clinical trial for a Product (other than the Product for which a distribution is made under the immediately preceding bullet point above).

100,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after the Company or its licensee applies for approval to market and sell a Product in a Major Market for the indications for which approval is sought (Marketing Approval).

50,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after the Company or its licensee applies for Marketing Approval in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding bullet point above).

200,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after the Company or its licensee obtains the first Marketing Approval for a Product from the applicable regulatory agency in a Major Market.

100,000 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after the Company or its licensee obtains Marketing Approval for a Product from the applicable regulatory agency in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding bullet point above).

As discussed above, in aggregate, the Company has issued to Mr. Daley, 200,000 shares of Raptor's common stock valued at \$83,000 and paid \$30,000 in cash bonuses related to Convivia™ milestones along with another \$20,000 in cash bonuses related to employment milestones pursuant to Mr. Daley's employment agreement.

CONTRACTUAL OBLIGATIONS WITH FORMER ENCODE STOCKHOLDERS AND UCSD RELATING TO THE ACQUISITION OF THE DR CYSTEAMINE LICENSE

As a result of the merger between our clinical subsidiary and Encode, as discussed in Note 8 above, the Encode Securityholders are eligible to receive up to an additional 2.4 million shares of Raptor's common stock, Company Options and Company Warrants to purchase Raptor's common stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program, if completed within the five year anniversary date of the merger agreement.

Also as a result of the merger, the Company will be obligated to pay an annual maintenance fee to UCSD for the exclusive license to develop DR Cysteamine for certain indications of \$15,000 until it begins commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, the Company will be obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year we begin commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, the Company is obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, the Company is obligated to, among other things, secure \$1 million in funding prior to December 18, 2008 (which the Company

Table of Contents**RAPTOR PHARMACEUTICALS CORP.****(A Development Stage Company)****NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS**

has fulfilled by raising \$10 million in its May/June 2008 private placement) and annually spend at least \$200,000 for the development of products (which, as of its fiscal year ended August 31, 2008, the Company has fulfilled by spending approximately \$900,000 on such programs) pursuant to the License Agreement. As of May 31, 2009, the Company accrued \$40,000 due to UCSD for the milestone related to the first patient dosing in the NASH trial which commenced in October 2008. To the extent that the Company fails to perform any of its obligations under the License Agreement, then UCSD may terminate the license or otherwise cause the license to become non-exclusive.

OFFICE LEASES

In March 2006, the Company entered into a lease for the Company's executive offices and research laboratory in Novato, California. Base monthly payments were \$5,206 per month subject to annual rent increase of between 3% to 5%, based on the Consumer Price Index (CPI). In March 2006, the Company paid \$20,207 as a security deposit on this lease, which expired in March 2009. Effective April 1, 2007, the Company leased additional office space adjoining the existing leased space, increasing our base rent to \$9,764 per month without extending the term of the original lease. The original lease allows for one three-year extension at the market rate and up to \$18,643 in reimbursement for tenant improvements. In June 2008, the Company's rent increased to \$10,215 reflecting a CPI increase of 3% plus an increase in operating costs for the period from April 1, 2008 to March 31, 2009. In September 2008, the Company executed a lease addendum replacing the one three-year extension with two two-year extensions commencing on April 1, 2009 and renegotiated the first two-year extension base rent to \$10,068 with an adjustment after the first year for CPI between 3% (minimum) and 5% (maximum). During the three and nine month periods ended May 31, 2009 and 2008 and the cumulative period from September 8, 2005 (inception) to May 31, 2009, the Company paid \$31,904, \$94,195, \$31,378, \$93,462 and \$333,759, respectively, in rent.

The minimum future lease payments under this operating lease assuming a 3% CPI increase per year are as follows:

| Period | Amount |
|--------------------------------------|---------------|
| June 1, 2009 through August 31, 2009 | \$ 30,679 |
| Fiscal year ending August 31, 2010 | 124,226 |
| September 1, 2010 to March 31, 2011 | 73,698 |

CAPITAL LEASE

In June 2006, the Company leased a photocopier machine for 36 months at \$242 per month. There was no purchase option at the end of the lease. Based on the fair value and estimated useful life of the photocopier and the life of the lease and the photocopier, the Company has accounted for the lease as a capital lease. In September 2008, the Company replaced the originally leased photocopier with a new photocopier which is subject to a 39-month lease at \$469 per month. There were no penalties imposed for cancelling the original lease.

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The future lease payments under the capital lease are as follows:

| Period | Amount |
|--|------------------|
| June 1, 2009 through August 31, 2009 | \$ 1,406 |
| Fiscal year ending August 31, 2010 | 5,625 |
| Fiscal year ending August 31, 2011 | 5,625 |
| September 1, 2011 to December 31, 2011 | 1,875 |
| Total future capital lease payments | 14,531 |
| Less interest | (2,813) |
| Total current and long-term capital lease liability | \$ 11,718 |

Interest rate on the capital lease is 17% based on the lessor's implicit rate of return.

RESEARCH COLLABORATION AGREEMENT

In September 2008, the Company signed a research collaboration agreement with a research hospital. The research collaboration agreement requires the Company to pay an aggregate of \$150,000 over one year, which includes the salary, benefits and overhead of one research scientist along with laboratory equipment and supplies necessary to carry out the research at the university.

The future commitments pursuant to the research agreement are as follows:

| Period | Amount |
|--------------------------------------|---------------|
| June 1, 2009 through August 31, 2009 | \$ 5,000 |

CLINICAL STUDY AGREEMENT

In May 2009, the Company entered into a clinical study collaboration agreement with the University of California, San Diego, to study DR Cysteamine in patients with cystinosis. Also in May 2009, the Company entered into an agreement with a clinical research organization to monitor the cystinosis trial. The future commitments pursuant to these clinical study agreements are as follows:

| Period | Amount |
|--------------------------------------|---------------|
| June 1, 2009 through August 31, 2009 | \$ 284,387 |

FORMULATION / MANUFACTURING AGREEMENT

In April 2008, the Company executed an agreement with a contract manufacturing organization to formulate and manufacture DR Cysteamine for its cystinosis program. The costs are invoiced to the Company in installments throughout the formulation and manufacturing process. Also in July 2008, the Company executed a supply agreement with a contract manufacturer for the active pharmaceutical agreement of DR Cysteamine. The future commitments pursuant to these contracts are as follows:

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| Period | Amount |
|--------------------------------------|---------------|
| June 1, 2009 through August 31, 2009 | \$ 813,740 |

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RAPTOR PHARMACEUTICALS CORP.

(A Development Stage Company)

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

(11) SUBSEQUENT EVENTS

In June 2009, the Company entered into a collaboration and license agreement with F. Hoffmann La Roche Ltd. and Hoffmann La Roche Inc., an international pharmaceutical company, in which the Company gave worldwide development rights to its proprietary NeuroTrans™ technology platform which is being developed to potentially aid therapeutics and diagnostics cross the blood-brain barrier. The Company may earn future milestone payments, if at all, based on development milestones. The agreement also includes a collaboration agreement in which both the Company and Roche will develop and test certain molecules attached to NeuroTrans™ for their ability to cross the blood-brain barrier and potentially a second-phase collaboration to be determined after the initial phase of collaboration. The Company will receive an initial collaboration fee to cover its costs of the collaboration and may earn additional collaboration fees, should Roche and the Company enter into a second phase of collaboration.

In June 2009, the Company commenced its DR Cysteamine Phase IIb pilot clinical trial to treat up to six cystinosis patients. The Company estimates the trial will cost approximately \$300,000 and clinical data from this trial is anticipated to be released in the third calendar quarter of 2009.

In April 2009, the Company exchanged warrants issued by it in connection with the 2008 private placement for new warrants having an exercise price of \$0.30 per share solely to the extent that such new warrants are exercised on or prior July, 17, 2009. As of July 10, 2009, approximately \$1.6 million of proceeds have been received from warrant exercises.

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Annex A

AGREEMENT AND PLAN OF MERGER AND REORGANIZATION

among:

TORREYPINES THERAPEUTICS, INC.,

a Delaware corporation;

ECP ACQUISITION, INC.,

a Delaware corporation; and

RAPTOR PHARMACEUTICALS CORP.,

a Delaware corporation

Dated as of July 27, 2009

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AGREEMENT AND PLAN OF MERGER AND REORGANIZATION

THIS AGREEMENT AND PLAN OF MERGER AND REORGANIZATION is made and entered into as of July 27, 2009, by and among **RAPTOR PHARMACEUTICALS CORP.**, a Delaware corporation (*Raptor*), **TORREYPINES THERAPEUTICS, INC.**, a Delaware corporation (*TPT*), and **ECP ACQUISITION, INC.**, a Delaware corporation and a wholly owned subsidiary of TPT (*Merger Sub*). Capitalized terms used in this Agreement are defined in Exhibit A.

RECITALS

A. Raptor, TPT and Merger Sub intend to effect a merger of Merger Sub with and into Raptor in accordance with the Delaware General Corporation Law (the *DGCL*) and this Agreement (the *Merger*). Upon consummation of the Merger, Merger Sub will cease to exist, and Raptor will become a wholly owned subsidiary of TPT.

B. It is intended that the Merger qualify as a tax-free reorganization within the meaning of Section 368(a) of the Internal Revenue Code of 1986, as amended (the *Code*).

C. The respective boards of directors of Raptor, TPT and Merger Sub have each adopted a resolution approving and declaring the advisability of this Agreement, the Merger and each of the other Contemplated Transactions, as applicable.

D. As a condition and inducement to Raptor's, TPT's and Merger Sub's willingness to enter into this Agreement and to consummate the Merger, concurrently with the execution and delivery of this Agreement, directors and executive officers of TPT and Raptor, respectively, who own TPT Common Stock and Raptor Common Stock, respectively, are executing voting agreements in favor of Raptor and TPT, respectively (the *Voting Agreements*) whereby such TPT stockholders and Raptor stockholders have agreed to vote their shares of TPT Common Stock and Raptor Common Stock, as applicable, in accordance therewith, respectively, each in the manner and subject to the other terms and conditions set forth therein.

E. Each of Evelyn Graham, Craig Johnson and Paul Schneider, respectively, have executed and delivered amended and restated employment agreements with TPTX, Inc., a Delaware corporation and wholly-owned subsidiary of TPT (the *Employment Agreements*), the forms of which are attached hereto as Exhibits B, C and D, respectively, such Employment Agreements to become effective as of the Effective Date.

AGREEMENT

The parties to this Agreement, intending to be legally bound, agree as follows:

SECTION 1

DESCRIPTION OF TRANSACTION

1.1 Merger of Merger Sub with and into Raptor. Upon the terms and subject to the conditions set forth in this Agreement, at the Effective Time, Merger Sub shall be merged with and into Raptor, and the separate existence of Merger Sub shall cease. Following the Effective Time, Raptor shall continue as the surviving corporation (the *Surviving Corporation*).

1.2 Effect of the Merger. The Merger shall have the effects set forth in this Agreement and in the applicable provisions of the DGCL.

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1.3 Closing; Effective Time. The consummation of the Merger (the *Closing*) shall take place at the offices of Paul, Hastings, Janofsky & Walker LLP, 515 S. Flower St., 25th Flr., Los Angeles, California 90071, at 10:00 a.m. on a date to be agreed upon in writing by TPT and Raptor (the *Closing Date*), which shall be no later than the third Business Day after the satisfaction or waiver of the last to be satisfied or waived of the conditions set forth in Sections 5 and 6 (other than those conditions that by their nature are to be satisfied at the Closing, but subject to the satisfaction or waiver of such conditions). Subject to the provisions of this Agreement, a certificate of merger satisfying the applicable requirements of the DGCL (the *Certificate of Merger*) shall be duly executed by Raptor and, simultaneously with or as soon as practicable following the Closing, filed with the Secretary of State of the State of Delaware (the *Secretary of State*). The Merger shall become effective upon the later of: (a) the date and time of the filing of the Certificate of Merger with the Secretary of State, or (b) such later date and time as may be specified in the Certificate of Merger with the Consent of the Parties. The date and time the Merger becomes effective is referred to in this Agreement as the *Effective Time*.

1.4 Certificate of Incorporation and Bylaws; Directors and Officers. At the Effective Time:

(a) the certificate of incorporation of Raptor shall be amended as a result of the Merger to contain terms and conditions acceptable to Raptor, in its sole and absolute discretion, subject to the requirements of Section 4.18 of this Agreement, and, as so amended, shall be the certificate of incorporation of the Surviving Corporation from and after the Effective Time, until thereafter changed or amended as provided therein or by applicable Legal Requirement;

(b) the bylaws of Raptor shall be amended to contain terms and conditions acceptable to Raptor, in its sole and absolute discretion, subject to the requirements of Section 4.19 of this Agreement, and, as so amended, shall be the bylaws of the Surviving Corporation from and after the Effective Time, until thereafter changed or amended as provided therein or by applicable Legal Requirement;

(c) the certificate of incorporation of TPT shall be amended and restated immediately prior to the Merger so as to (i) accomplish the Reverse Stock Split, (ii) change the name of TPT to Raptor Pharmaceutical Corp. or such other name as Raptor shall determine and (iii) to contain such other terms and conditions as are acceptable to Raptor, in its sole and absolute discretion, subject to the requirements of Section 4.18 of this Agreement, and as so amended, shall be the certificate of incorporation of TPT from and after the Effective Time, until thereafter changed or amended as provided therein or by applicable Legal Requirement (the *TPT Charter Amendment*); and

(d) the directors and officers of TPT and the Surviving Corporation immediately after the Effective Time shall be the respective individuals who are directors and officers of Raptor immediately prior to the Effective Time.

1.5 Conversion of Shares.

(a) At the Effective Time, by virtue of the Merger and without any further action on the part of Raptor, TPT, Merger Sub or any stockholder of Raptor, TPT or Merger Sub:

(i) each share of Raptor Common Stock then held by Raptor or any wholly owned Subsidiary of Raptor (or held in Raptor's treasury) shall be canceled and retired and shall cease to exist, and no consideration shall be delivered in exchange therefor;

(ii) each share of Raptor Common Stock then held by TPT, Merger Sub or any wholly-owned Subsidiary of TPT shall be canceled and retired and shall cease to exist, and no consideration shall be delivered in exchange therefor; and

(iii) subject to Sections 1.5(b) and 1.5(c), each share of Raptor Common Stock outstanding immediately prior to the Effective Time (excluding shares to be cancelled pursuant to Sections 1.5(a)(i) and 1.5(a)(ii) and excluding Dissenting Shares) shall be converted solely into the right to receive shares of TPT Common Stock equal to the Exchange Ratio; and

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(iv) each share of the common stock, \$0.0001 par value per share, of Merger Sub then outstanding shall be converted into one share of common stock of the Surviving Corporation.

(b) If, between the date of this Agreement and the Effective Time, the outstanding shares of TPT Common Stock or Raptor Common Stock are changed into a different number or class of shares by reason of any stock split, stock dividend, reverse stock split (including, without limitation, the Reverse Stock Split), reclassification, recapitalization or other similar transaction or event, then the Exchange Ratio and the inputs thereto shall be appropriately adjusted to provide the holders of Raptor Common Stock, Raptor Stock Options and Raptor Warrants and TPT Common Stock, TPT Restricted Stock Units, TPT Stock Options and TPT Warrants the same economic effect as contemplated by this Agreement prior to such event. No fractional shares of TPT Common Stock shall be issued in connection with the Reverse Stock Split, and no certificates or scrip for any such fractional shares shall be issued. Any holder of TPT Common Stock who would otherwise be entitled to receive a fraction of a share of TPT Common Stock (after aggregating all fractional shares of TPT Common Stock issuable to such holder) shall, in lieu of such fraction of a share and upon surrender of such holder's certificate representing such fractional shares of TPT Common Stock, be paid in cash the dollar amount (provided to the nearest whole cent), without interest, determined by multiplying such fraction by the closing price of a share of TPT Common Stock on the NASDAQ Global Market or the NASDAQ Capital Market, as applicable, on the date immediately preceding the effective date of the Reverse Stock Split.

(c) No fractional shares of TPT Common Stock shall be issued in connection with the Merger, and no certificates or scrip for any such fractional shares shall be issued. Any holder of Raptor Common Stock who would otherwise be entitled to receive a fraction of a share of TPT Common Stock (after aggregating all fractional shares of TPT Common Stock issuable to such holder) shall, in lieu of such fraction of a share and, upon surrender of such holder's Raptor Stock Certificate(s), be paid in cash the dollar amount (rounded to the nearest whole cent), without interest, determined by multiplying such fraction by the closing price of a share of TPT Common Stock on the NASDAQ Global Market or the NASDAQ Capital Market, as applicable, on the Closing Date.

(d) If any shares of Raptor Common Stock outstanding immediately prior to the Effective Time are unvested or are subject to a repurchase option, risk of forfeiture or other condition under any applicable restricted stock purchase agreement or other agreement with Raptor, then the shares of TPT Common Stock issued in exchange for such shares of Raptor Common Stock will also be unvested and subject to the same repurchase option, risk of forfeiture or other condition, and the certificates representing such shares of TPT Common Stock shall accordingly be marked with appropriate legends.

1.6 Stock Options; Warrants.

(a) Subject to Section 1.6(d), at the Effective Time, each Raptor Stock Option that is outstanding and unexercised immediately prior to the Effective Time, whether or not vested, shall be converted into and become an option to purchase TPT Common Stock, and TPT shall assume each such Raptor Stock Option in accordance with the terms (as in effect as of the date of this Agreement) of the Raptor Stock Option Plan under which such Raptor Stock Option was issued and the terms of the stock option agreement by which such Raptor Stock Option is evidenced. All rights with respect to Raptor Common Stock under Raptor Stock Options assumed by TPT shall thereupon be converted into rights with respect to TPT Common Stock. Accordingly, from and after the Effective Time: (i) each Raptor Stock Option assumed by TPT may be exercised solely for shares of TPT Common Stock; (ii) the number of shares of TPT Common Stock subject to each Raptor Stock Option assumed by TPT shall be determined by multiplying (A) the number of shares of Raptor Common Stock that were subject to such Raptor Stock Option, as in effect immediately prior to the Effective Time by (B) the Exchange Ratio and rounding the resulting number down to the nearest whole number of shares of TPT Common Stock; (iii) the per share exercise price for the TPT Common Stock issuable upon exercise of each Raptor Stock Option assumed by TPT shall be determined by dividing (A) the per share exercise price of Raptor Common Stock subject to such Raptor Stock Option, as in effect immediately prior to the Effective Time, by (B) the Exchange Ratio and rounding the resulting exercise

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price up to the nearest whole cent; and (iv) any restriction on the exercise of any Raptor Stock Option assumed by TPT shall continue in full force and effect and the term, exercisability, vesting schedule and other provisions of such Raptor Stock Option shall otherwise remain unchanged; provided, however, that: (A) to the extent provided under the terms of a Raptor Stock Option, such Raptor Stock Option assumed by TPT in accordance with this Section 1.6(a) shall, in accordance with its terms, be subject to further adjustment as appropriate to reflect any stock split, division or subdivision of shares, stock dividend, reverse stock split (including, without limitation, the Reverse Stock Split), consolidation of shares, reclassification, recapitalization or other similar transaction with respect to TPT Common Stock occurring after the date of this Agreement; and (B) TPT's board of directors or a committee thereof shall succeed to the authority and responsibility of Raptor's board of directors or any committee thereof with respect to each Raptor Stock Option assumed by TPT. Notwithstanding anything to the contrary in this Section 1.6(a), the conversion of each Raptor Stock Option (regardless of whether such option qualifies as an incentive stock option within the meaning of Section 422 of the Code) into an option to purchase shares of TPT Common Stock shall be made in a manner consistent with Treasury Regulation Section 1.424-1, such that the conversion of a Raptor Stock Option shall not constitute a modification of such Raptor Stock Option for purposes of Section 409A or Section 424 of the Code.

(b) TPT shall file with the SEC, no later than 60 days after the Effective Time, a registration statement on Form S-8, if available for use by TPT, relating to the shares of TPT Common Stock issuable with respect to Raptor Stock Options assumed by TPT in accordance with Section 1.6(a).

(c) Subject to Section 1.6(d), at the Effective Time, each Raptor Warrant that is outstanding and unexercised immediately prior to the Effective Time, shall become converted into and become a warrant to purchase TPT Common Stock and TPT shall assume each such Raptor Warrant in accordance with its terms. All rights with respect to Raptor Common Stock under Raptor Warrants assumed by TPT shall thereupon be converted into rights with respect to TPT Common Stock. Accordingly, from and after the Effective Time: (i) each Raptor Warrant assumed by TPT may be exercised solely for shares of TPT Common Stock; (ii) the number of shares of TPT Common Stock subject to each Raptor Warrant assumed by TPT shall be determined by multiplying (A) the number of shares of Raptor Common Stock issuable upon exercise of the Raptor Warrant immediately prior to the Effective Time by (B) the Exchange Ratio and rounding the resulting number down to the nearest whole number of shares of TPT Common Stock; (iii) the per share exercise price for the TPT Common Stock issuable upon exercise of each Raptor Warrant assumed by TPT shall be determined by dividing the effective per share exercise price of Raptor Common Stock that are subject to such Raptor Warrant, as in effect immediately prior to the Effective Time, by the Exchange Ratio and rounding the resulting exercise price up to the nearest whole cent; and (iv) any restriction on any Raptor Warrant assumed by TPT shall continue in full force and effect and the term and other provisions of such Raptor Warrant shall otherwise remain unchanged; provided, however, that to the extent provided under the terms of a Raptor Warrant, such Raptor Warrant assumed by TPT in accordance with this Section 1.6(c) shall, in accordance with its terms, be subject to further adjustment as appropriate to reflect any stock split, division or subdivision of shares, stock dividend, reverse stock split (including, without limitation, the Reverse Stock Split), consolidation of shares, reclassification, recapitalization or other similar transaction with respect to TPT Common Stock occurring after the date of this Agreement.

(d) Prior to the Effective Time, Raptor shall take all actions that may be necessary (under the Raptor Stock Option Plan, the Raptor Warrants and otherwise) to effectuate the provisions of this Section 1.6 and to ensure that, from and after the Effective Time, holders of Raptor Stock Options and Raptor Warrants have no rights with respect thereto other than those specifically provided in this Section 1.6.

1.7 Closing of Raptor's Transfer Books. At the Effective Time: (a) all holders of certificates representing shares of Raptor Common Stock that were outstanding immediately prior to the Effective Time shall cease to have any rights as stockholders of Raptor other than the right to receive shares of TPT Common Stock (and cash in lieu of any fractional share of TPT Common Stock) as contemplated by Section 1.5; and (b) the stock transfer books of Raptor shall be closed with respect to all shares of Raptor Common Stock outstanding immediately

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prior to the Effective Time. No further transfer of any such shares of Raptor Common Stock shall be made on such stock transfer books after the Effective Time. If, after the Effective Time, a valid certificate previously representing any shares of Raptor Common Stock (a ***Raptor Stock Certificate***) is presented to the Exchange Agent or to the Surviving Corporation or TPT, such Raptor Stock Certificate shall be canceled and shall be exchanged as provided in Section 1.8.

1.8 Exchange of Certificates.

(a) On or prior to the Closing Date, Raptor and TPT shall together select a reputable bank, transfer agent or trust company to act as exchange agent in the Merger (the ***Exchange Agent***). Promptly after the Effective Time, TPT shall deposit with the Exchange Agent (i) certificates representing the shares of TPT Common Stock issuable pursuant to Section 1.5 and (ii) cash sufficient to make payments in lieu of fractional shares in accordance with Section 1.5(c). The shares of TPT Common Stock and cash amounts so deposited with the Exchange Agent, together with any dividends or distributions received by the Exchange Agent with respect to such shares, are referred to collectively as the ***Exchange Fund***.

(b) As soon as reasonably practicable after the Effective Time, the Exchange Agent will mail to the record holders of Raptor Stock Certificates (i) a letter of transmittal in customary form and containing such provisions as Raptor may reasonably specify (including a provision confirming that delivery of Raptor Stock Certificates shall be effected, and risk of loss and title to such Raptor Stock Certificates shall pass, only upon delivery of such Raptor Stock Certificates to the Exchange Agent), and (ii) instructions for use in effecting the surrender of Raptor Stock Certificates in exchange for certificates representing TPT Common Stock. Upon surrender of a Raptor Stock Certificate to the Exchange Agent for exchange, together with a duly executed letter of transmittal and such other documents as may be reasonably required by the Exchange Agent or Raptor, (A) the holder of such Raptor Stock Certificate shall be entitled to receive in exchange therefor a certificate representing the number of whole shares of TPT Common Stock that such holder has the right to receive pursuant to the provisions of Section 1.5 (and cash in lieu of any fractional share of TPT Common Stock), and (B) the Raptor Stock Certificate so surrendered shall be canceled. Until surrendered as contemplated by this Section 1.8, each Raptor Stock Certificate shall be deemed, from and after the Effective Time, to represent only the right to receive shares of TPT Common Stock (and cash in lieu of any fractional share of TPT Common Stock) as contemplated by this Section 1. If any Raptor Stock Certificate shall have been lost, stolen or destroyed, Raptor or the Exchange Agent may, in its discretion and as a condition precedent to the issuance of any certificate representing TPT Common Stock, require the owner of such lost, stolen or destroyed Raptor Stock Certificate to provide an appropriate affidavit and to deliver a bond (in such sum as Raptor or the Exchange Agent may reasonably direct) as indemnity against any claim that may be made against the Exchange Agent, Raptor or the Surviving Corporation with respect to such Raptor Stock Certificate.

(c) No dividends or other distributions declared or made with respect to TPT Common Stock with a record date after the Effective Time shall be paid to the holder of any un-surrendered Raptor Stock Certificate with respect to the shares of TPT Common Stock that such holder has the right to receive in the Merger until such holder surrenders such Raptor Stock Certificate in accordance with this Section 1.8 (at which time such holder shall be entitled, subject to the effect of applicable escheat or similar laws, to receive all such dividends and distributions, without interest).

(d) Any portion of the Exchange Fund that remains undistributed to holders of Raptor Stock Certificates as of the date 180 days after the Effective Time shall be delivered to TPT upon demand, and any holders of Raptor Stock Certificates who have not theretofore surrendered their Raptor Stock Certificates in accordance with this Section 1.8 shall thereafter look only to TPT for satisfaction of their claims for TPT Common Stock, cash in lieu of fractional shares of TPT Common Stock and any dividends or distributions with respect to TPT Common Stock.

(e) Each of the Exchange Agent, Raptor, TPT and the Surviving Corporation shall be entitled to deduct and withhold from any consideration payable or otherwise deliverable pursuant to this Agreement to any

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holder or former holder of Raptor Common Stock such amounts as may be required to be deducted or withheld therefrom under the Code or any provision of state, local or foreign tax law or under any other applicable Legal Requirement. To the extent such amounts are so deducted or withheld, such amounts shall be treated for all purposes under this Agreement as having been paid to the Person to whom such amounts would otherwise have been paid.

(f) No Merger Party shall be liable to any holder or former holder of Raptor Common Stock or to any other Person with respect to any shares of TPT Common Stock or Raptor Common Stock (or dividends or distributions with respect thereto) or for any cash amounts, properly delivered to any public official pursuant to any applicable abandoned property law, escheat law or similar Legal Requirement.

1.9 Tax Consequences. For federal income tax purposes, the Merger is intended to constitute a reorganization within the meaning of Section 368(a) of the Code. The parties to this Agreement hereby adopt this Agreement as a plan of reorganization within the meaning of Sections 1.368-2(g) and 1.368-3(a) of the United States Treasury Regulations.

1.10 Appraisal Rights.

(a) Notwithstanding anything to the contrary contained in this Agreement, any shares of Raptor Common Stock that, as of immediately prior to the Effective Time, are held by holders who have as of such time exercised and perfected appraisal rights under Section 262 of the DGCL with respect to such shares (collectively, the *Dissenting Shares*) shall not be converted into or represent the right to receive shares of TPT Common Stock in accordance with Section 1.5(a)(iii), or cash in lieu of fractional shares in accordance with Section 1.5(c), attributable to such Dissenting Shares, and the holder or holders of such Dissenting Shares shall be entitled only to such rights as may be granted to such holder or holders pursuant to Section 262 of the DGCL; provided, however, that if such appraisal rights shall not be perfected or the holders of such Dissenting Shares shall otherwise lose their appraisal rights with respect to such Dissenting Shares, then, as of the later of the Effective Time or the time of the failure to perfect such status or the loss of such rights, such Dissenting Shares shall automatically be converted into and shall represent only the right to receive (upon the surrender of such holder's Raptor Stock Certificate(s) in accordance with Section 1.8) shares of TPT Common Stock in accordance with Section 1.5(a)(iii) and cash in lieu of fractional shares in accordance with Section 1.5(c).

(b) Raptor shall give TPT prompt notice of any written demand received by Raptor prior to the Effective Time to require Raptor to purchase shares of Raptor Common Stock pursuant to Section 262 of the DGCL, withdrawals of such demands and any other instruments served on Raptor and any material correspondence received by Raptor in connection with such demands.

1.11 Further Action. If, at any time after the Effective Time, any further action is determined by TPT to be necessary or desirable to carry out the purposes of this Agreement or to vest the Surviving Corporation with full right, title and possession of and to all rights and property of Merger Sub and Raptor, the officers and directors of the Surviving Corporation shall be fully authorized (in the name of Raptor, Merger Sub and otherwise) to take such action.

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SECTION 2

REPRESENTATIONS AND WARRANTIES OF TPT

Each of TPT and Merger Sub represents and warrants to Raptor as follows except as set forth in the TPT Disclosure Schedule:

2.1 Organization and Good Standing.

(a) The TPT Corporations are corporations or other Entities duly organized, validly existing, and in good standing under the laws of their respective jurisdictions of incorporation or organization, with full corporate power or other Entity authority to conduct their respective businesses as now being conducted, to own or use the respective properties and assets that they purport to own or use, and to perform all their respective obligations under TPT Corporation Contracts. Each of the TPT Corporations is duly qualified to do business as a foreign corporation or other Entity and is in good standing under the laws of each state or other jurisdiction in which either the ownership or use of the properties owned or used by it, or the nature of the activities conducted by it, requires such qualification, except where the failure to be so qualified could not reasonably be expected, individually or in the aggregate, to result in a TPT Material Adverse Effect.

(b) Part 2.1(b) of the TPT Disclosure Schedule lists all TPT Corporations and indicates as to each the type of Entity, its jurisdiction of organization and, except in the case of TPT, its stockholders or other equity holders. Part 2.1(b) of the TPT Disclosure Schedule lists, and TPT has delivered to Raptor copies of, the certificate or articles of incorporation, by-laws and other organizational documents (collectively, ***Organizational Documents***) of each of the TPT Subsidiaries, as currently in effect.

2.2 Authority; No Conflict.

(a) TPT has all necessary corporate power and authority to execute and deliver this Agreement and the other agreements referred to in this Agreement, to perform its obligations hereunder and thereunder and to consummate the Merger and the other transactions contemplated hereby and thereby (collectively, and including the execution, delivery and performance by certain stockholders of the Voting Agreements, the ***Contemplated Transactions***), subject to obtaining the Required TPT Stockholder Vote and the filing of the Certificate of Merger required by the DGCL. The execution and delivery of this Agreement by TPT and the consummation by TPT of the Contemplated Transactions have been duly and validly authorized by all necessary corporate action and no other corporate proceedings on the part of TPT are necessary to authorize this Agreement or to consummate the Contemplated Transactions (other than the approval of the issuance of the TPT Common Stock to be issued in the Merger, the filing of the TPT Charter Amendment and the election of the persons identified on Part 4.17 of the TPT Disclosure Schedule to the TPT board of directors immediately after the Effective Time by the holders of a majority of the outstanding shares of TPT Common Stock (the ***Required TPT Stockholder Vote***) and the filing of appropriate merger documents as required by the DGCL). The board of directors of TPT has unanimously approved this Agreement, declared it to be advisable and subject to Section 4.7(c) resolved to recommend to the stockholders of TPT that they vote in favor of the adoption of this Agreement in accordance with the DGCL. The board of directors of TPT has unanimously rescinded its approval of a plan of liquidation and dissolution for TPT and has unanimously approved the cancellation of the meeting of its stockholders that it previously called and adjourned to approve such plan. This Agreement has been duly and validly executed and delivered by TPT and constitutes the legal, valid and binding obligations of TPT, enforceable against TPT in accordance with its terms, subject to: (i) laws of general application relating to bankruptcy, insolvency and the relief of debtors; and (ii) rules of law governing specific performance, injunctive relief and other equitable remedies.

(b) Except as set forth in Part 2.2(b) of the TPT Disclosure Schedule and subject to obtaining the Required TPT Stockholder Vote and filing of the Certificate of Merger required by the DGCL, neither the execution and delivery of this Agreement nor the consummation of any of the Contemplated Transactions do or will, directly or indirectly (with or without notice or lapse of time or both), (i) contravene, conflict

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with, or result in a violation of (A) any provision of the Organizational Documents of any of the TPT Corporations, or (B) any resolution adopted by the board of directors or the stockholders of any of the TPT Corporations; (ii) contravene, conflict with, or result in a violation of, or give any Governmental Body or other Person the right to challenge any of the Contemplated Transactions or to exercise any remedy or obtain any relief under, any Legal Requirement or any Order to which any of the TPT Corporations, or any of the assets owned or used by any of the TPT Corporations, is or may be subject; (iii) contravene, conflict with, or result in a violation of any of the terms or requirements of, or give any Governmental Body the right to revoke, withdraw, suspend, cancel, terminate, or modify, any Governmental Authorization that is held by any of the TPT Corporations, or that otherwise relates to the business of, or any of the assets owned or used by, any of the TPT Corporations; (iv) cause any of the TPT Corporations to become subject to, or to become liable for the payment of, any Tax; (v) cause any of the assets owned by any of the TPT Corporations to be reassessed or revalued by any Taxing Authority or other Governmental Body; (vi) contravene, conflict with, or result in a violation or breach of any provision of, or give any Person the right to declare a default or exercise any remedy under, or to accelerate the maturity or performance of, or to cancel, terminate, or modify, or create or give rise to any rights to or in any third Person to any payment of royalties or license fees, any rights to data or return of data or records, or to a right to terminate or amend any TPT Corporation Contract, including, without limitation, any license agreement, distribution agreement, development agreement, clinical trial agreement or other Contract affecting the rights of any TPT Corporation or its respective Affiliates or any of any TPT Corporation's products, whether to use, manufacture, develop, distribute, or market any of such products currently in clinical trial, development or otherwise; (vii) require a Consent from any Person, including, without limitation, any licensor of any product being developed by any TPT Corporation or any of its respective Affiliates, or which is the subject of any clinical trial or other investigational or developmental or clinical trial program by any TPT Corporation or any of its respective Affiliates; or (viii) result in the imposition or creation of any Encumbrance upon or with respect to any of the assets owned or used by any of the TPT Corporations, except, in the case of clauses (ii), (iii), (iv), (v), (vi), (vii) and (viii), for any such conflicts, violations, breaches, defaults or other occurrences that would not prevent or delay consummation of the Merger in any material respect, or otherwise prevent TPT from performing its obligations under this Agreement in any material respect, and could not reasonably be expected to, individually or in the aggregate, result in a TPT Material Adverse Effect.

(c) The execution and delivery of this Agreement by TPT do not, and the performance of this Agreement and the consummation of the Contemplated Transactions by TPT will not, require any Consent of, or filing with or notification to, any Governmental Body, except (i) for (A) applicable requirements, if any, of the Exchange Act, the Securities Act and state securities or blue sky laws (*Blue Sky Laws*), (B) the filing of the TPT Charter Amendment, (C) the filing of a Certificate of Merger as required by the DGCL, and (D) applicable requirements of NASDAQ and (ii) where failure to obtain such Consents, or to make such filings or notifications, would not prevent or delay consummation of the Merger in any material respect, or otherwise prevent TPT from performing its obligations under this Agreement in any material respect, and could not reasonably be expected to, individually or in the aggregate, result in a TPT Material Adverse Effect.

2.3 Capitalization.

(a) The authorized capital stock of TPT consists of 150,000,000 shares of TPT Common Stock and 15,000,000 shares of TPT Preferred Stock. As of the date hereof, (i) 15,999,058 shares of TPT Common Stock are issued and outstanding, all of which have been duly authorized and validly issued, and are fully paid and nonassessable, (ii) 2,761,952 shares of TPT Common Stock are reserved for issuance upon the exercise of outstanding stock options granted pursuant to the TPT Stock Plan (the *TPT Stock Options*), (iii) zero shares of TPT Common Stock are reserved for issuance upon the settlement of outstanding restricted stock units granted pursuant to the TPT Stock Plan (the *TPT Restricted Stock Units*), (iv) 1,657,614 shares of TPT Common Stock are reserved for issuance upon exercise of warrants of TPT (the *TPT Warrants*), (v) zero shares of TPT Common Stock are held in the treasury of TPT, (vi) 855,116

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shares of TPT Common Stock are reserved for issuance pursuant to TPT Stock Options not yet granted, and (vii) 100,000 shares of TPT Preferred Stock (designated Series A Preferred Stock, par value \$0.001 per share) are reserved for issuance upon exercise of the Rights issued pursuant to the Rights Agreement dated May 13, 2005 between TPT and American Stock Transfer & Trust Company (replacing The Nevada Agency and Trust Company), as Rights Agent, as amended (the ***TPT Rights Agreement***). No shares of TPT Preferred Stock are outstanding. There are not any bonds, debentures, notes or other indebtedness or, except as described in the immediately preceding sentence, securities of TPT having the right to vote (or convertible into, or exchangeable for, securities having the right to vote) on any matters on which stockholders of TPT may vote. Except as set forth in the second sentence of this Section 2.3, as of the date hereof, no shares of capital stock or other voting securities of TPT are issued, reserved for issuance or outstanding and no shares of capital stock or other voting securities of TPT will be issued or become outstanding after the date hereof other than upon exercise of the TPT Stock Options and the TPT Warrants outstanding as of the date hereof.

(b) Except as set forth in this Section 2.3 or in Part 2.3 of the TPT Disclosure Schedule or in the Voting Agreements, there are no options, stock appreciation rights, warrants or other rights, Contracts, arrangements or commitments of any character (collectively, ***Options***) relating to the issued or unissued capital stock of any of the TPT Corporations, or obligating any of the TPT Corporations to issue, grant or sell any shares of capital stock of, or other equity interests in, or securities convertible into equity interests in, TPT or any of its Subsidiaries. Since January 1, 2009, TPT has not issued any shares of its capital stock or Options in respect thereof, except upon the conversion of the securities or the exercise or settlement, as applicable, of the TPT Stock Options, the TPT Warrants and the TPT Restricted Stock Units.

(c) All shares of TPT Common Stock subject to issuance as described above on or before the Closing will, upon issuance on the terms and conditions specified in the instruments pursuant to which they are issuable, be duly authorized, validly issued, fully paid and nonassessable. None of the TPT Corporations has any Contract or other obligation to repurchase, redeem or otherwise acquire any shares of TPT Common Stock or any capital stock of any of TPT's Subsidiaries, or make any investment (in the form of a loan, capital contribution or otherwise) in any of TPT's Subsidiaries or any other Person. Each outstanding share of capital stock of each of TPT's Subsidiaries is duly authorized, validly issued, fully paid and nonassessable and each such share is owned by TPT or another TPT Corporation and is free and clear of all Encumbrances. None of the outstanding equity securities or other securities of any of the TPT Corporations was issued in violation of the Securities Act or any other Legal Requirement. None of the TPT Corporations owns, or has any Contract or other obligation to acquire, any equity securities or other securities of any Person (other than Subsidiaries of TPT) or any direct or indirect equity or ownership interest in any other business. None of the TPT Corporations is or has ever been a general partner of any general or limited partnership.

2.4 SEC Reports.

(a) Except as set forth on Part 2.4-1 of the TPT Disclosure Schedule, TPT has on a timely basis filed all forms, reports and documents required to be filed by it with the SEC since October 4, 2006 (such documents, as supplemented or amended since the time of filing, the ***TPT SEC Reports***). The TPT SEC Reports (i) were or will be prepared in accordance with the requirements of the Securities Act and the Exchange Act, as the case may be, and, to the extent then applicable, SOX, including in each case, the rules and regulations thereunder and (ii) except to the extent that information contained in any TPT SEC Reports has been revised, modified or superseded (prior to the date of this Agreement) by a later filed TPT SEC Report, did not at the time they were filed with the SEC, or will not at the time they are filed with the SEC, contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary in order to make the statements made therein, in the light of the circumstances under which they were made, not misleading. No Subsidiary of TPT is or has been required to file any form, report, registration statement or other document with the SEC. TPT maintains disclosure controls and procedures required by Rule 13a-15 or 15d-15 under the Exchange Act; and such controls and procedures are designed

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to ensure that all material information concerning TPT and its Subsidiaries is made known on a timely basis to the individuals responsible for the preparation of TPT's filings with the SEC and other public disclosure documents. Except as set forth on Part 2.4-2 of the TPT Disclosure Schedule, to TPT's Knowledge, each director and executive officer of TPT has filed with the SEC on a timely basis all statements required by Section 16(a) of the Exchange Act and the rules and regulations thereunder since October 4, 2006. As used in this Section 2.4, the term "file" shall be broadly construed to include any manner in which a document or information is furnished, supplied or otherwise made available to the SEC. With respect to TPT's Annual Reports on Form 10-K for each fiscal year of TPT beginning on or after October 4, 2006 and TPT's Quarterly Reports on Form 10-Q for each of the first three fiscal quarters in each of such fiscal years of TPT, all certifications and statements with respect thereto and required by Rules 13a-14 and 15d-14 under the Exchange Act and Sections 302 and 906 of SOX, and the rules and regulations of the SEC promulgated thereunder, complied with such rules and regulations and the statements contained in such certifications statements were true and correct as of the date of the filing thereof.

(b) Since October 4, 2006, neither TPT nor any of its Subsidiaries or, to TPT's Knowledge, any Representative of TPT or any of its Subsidiaries has received or has otherwise had or obtained knowledge of any complaint, allegation, assertion or claim, whether written or oral, regarding the accounting or auditing practices, procedures, methodologies or methods of TPT or any of its Subsidiaries or their internal control over financial reporting, including any complaint, allegation, assertion or claim that TPT or any of its Subsidiaries has engaged in questionable accounting or auditing practices.

(c) The TPT Corporations have implemented and maintain a system of internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) sufficient to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with GAAP, including, without limitation, that (i) transactions are executed in accordance with management's general or specific authorizations, (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain asset accountability, (iii) access to assets is permitted only in accordance with management's general or specific authorization, and (iv) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences. Except as set forth in Part 2.4(c) of the TPT Disclosure Schedule, since October 4, 2006, (A) there have not been any changes in the TPT Corporations' internal control over financial reporting that have materially affected, or are reasonably likely to materially affect, the TPT Corporations' internal control over financial reporting; (B) all significant deficiencies and material weaknesses in the design or operation of the TPT Corporations' internal control over financial reporting which are reasonably likely to adversely affect the TPT Corporations' ability to record, process, summarize and report financial information have been disclosed to TPT's outside auditors and the audit committee of TPT's board of directors, and (C) there has not been any fraud, whether or not material, that involves management or other employees who have a significant role in the TPT Corporations' internal control over financial reporting. Part 2.4(c) of the TPT Disclosure Schedule lists, and TPT has made available to Raptor copies of, all reports and other documents concerning internal control filed with the SEC or delivered to TPT by its auditors since October 4, 2006. TPT has made available to Raptor copies of all policies, manuals and other documents promulgating such disclosure controls and procedures.

(d) TPT is, and since October 4, 2006 has been, in compliance with the applicable provisions of SOX and the applicable listing and corporate governance rules and regulations of NASDAQ.

2.5 Financial Statements.

(a) The financial statements and notes contained or incorporated by reference in the TPT SEC Reports (i) complied as to form in all material respects with the published rules and regulations of the SEC (including Regulation S-X) as of the date of the filing of such reports; (ii) were prepared in accordance with GAAP (except as may be indicated in the notes to such financial statements or, in the case of unaudited financial statements, as permitted by Form 10-Q of the SEC, and except that the unaudited financial

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statements may not contain footnotes to the extent permitted by Regulation S-X and are subject to normal and recurring year-end adjustments that will not, individually or in the aggregate, be material in amount), and (iii) fairly present in all material respects the consolidated financial position of the TPT Corporations as of the respective dates thereof and the consolidated results of operations, changes in stockholders' equity and cash flows of the TPT Corporations as at the respective dates of and for the periods referred to in such financial statements. The financial statements referred to in this Section 2.5 reflect the consistent application of such accounting principles throughout the periods involved, except as disclosed in the notes to such financial statements. No financial statements of any Person other than TPT and its Subsidiaries are required by GAAP to be included in the consolidated financial statements of TPT.

(b) Part 2.5(b) of the TPT Disclosure Schedule lists, and TPT has delivered to Raptor copies of, the documents creating or governing, all of TPT's Off-Balance Sheet Arrangements.

(c) Part 2.5(c) of the TPT Disclosure Schedule contains a description of all non-audit services performed by TPT's auditors for the TPT Corporations since the beginning of the immediately preceding fiscal year of TPT and the fees paid for such services. All such non-audit services have been approved as required by Section 202 of SOX.

2.6 Property; Sufficiency of Assets. The TPT Corporations (a) have good and valid title to all property material to the business of the TPT Corporations and reflected in the latest audited financial statements included in the TPT SEC Reports as being owned by the TPT Corporations or acquired after the date thereof (except for property sold or otherwise disposed of in the ordinary course of business since the date thereof), free and clear of all Encumbrances except (i) statutory Encumbrances securing payments not yet due and (ii) such imperfections or irregularities of title or Encumbrances as do not affect the use of the properties or assets subject thereto or affected thereby or otherwise materially impair business operations at such properties, in either case in such a manner as to have a TPT Material Adverse Effect, and (b) are collectively the lessee of all property material to the business of the TPT Corporations and reflected as leased in the latest audited financial statements included in the TPT SEC Reports (or on the books and records of TPT as of the date thereof) or acquired after the date thereof (except for leases that have expired by their terms) and are in possession of the properties purported to be leased thereunder, and each such lease is valid and in full force and effect without default thereunder by the lessee or the lessor, other than defaults that would not have a TPT Material Adverse Effect.

2.7 Real Property; Equipment; Leasehold. Except as set forth in Part 2.7-1 of the TPT Disclosure Schedule, none of the TPT Corporations own any real property or any interest in real property. Part 2.7-2 of the TPT Disclosure Schedule contains a true, complete and accurate list of all the TPT Corporations' real property leases. With respect to such real property leases: (a) such TPT Corporation's possession and quiet enjoyment of real property under such lease has not been materially disturbed, (b) such TPT Corporation is not, and to the Knowledge of TPT, no other party to such lease is, in breach of such lease, (c) to the Knowledge of TPT, there are no disputes with respect to such lease and (d) other than such TPT Corporation, there is no other Person in possession of the real property under such lease.

2.8 Proprietary Rights.

(a) **Registered IP.** Part 2.8(a) of the TPT Disclosure Schedule contains a complete and accurate list of all Registered IP owned or purported to be owned by or filed in the name of any TPT Corporation, which list identifies (i) the jurisdiction in which each item of Registered IP has been registered or filed, and (ii) any item of Registered IP that is jointly owned with any other Person.

(b) **Third Party IP and Inbound Licenses.** Part 2.8(b) of the TPT Disclosure Schedule contains a complete and accurate list of all Intellectual Property Rights or Intellectual Property licensed to any TPT Corporation (other than non-customized, executable code, internal use software licenses for software that is not incorporated into, or used directly in the development, manufacturing, or distribution of, any TPT Corporation) (s) products or services and that is generally available on standard terms for less than \$2,000), and the corresponding Contracts in which such Intellectual Property Rights or Intellectual Property is

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licensed to any TPT Corporation (all of which are deemed to be TPT Material Contracts for purposes of Section 2.16).

(c) **Outbound Licenses.** Part 2.8(c) of the TPT Disclosure Schedule contains a complete and accurate list of all Contracts currently in effect in which any Person has been granted any license under, or otherwise transferred or conveyed any right or interest in, any TPT IP. No TPT Corporation is bound by, and no TPT IP is subject to, any Contract containing any covenant or other provision that in any way limits or restricts the ability of any TPT Corporation to use, exploit, assert, or enforce the TPT IP anywhere in the world which limitations or restrictions would reasonably be expected to have a TPT Material Adverse Effect.

(d) **Demand Letters.** Part 2.8(d) of the TPT Disclosure Schedule contains a complete and accurate list (and TPT has provided true, complete and accurate copies to Raptor) of all letters and other written or electronic communications or correspondence since October 4, 2006 between any TPT Corporation or any of their respective Representatives and any other Person regarding any actual, alleged, possible, potential, or suspected infringement or misappropriation of TPT IP, along with a brief description of the current status of each such matter.

(e) **Ownership Free and Clear.** The TPT Corporations exclusively own all right, title, and interest to and in the TPT IP (other than Intellectual Property Rights exclusively licensed to any TPT Corporation, as identified in Part 2.8(b) of the TPT Disclosure Schedule) free and clear of any Encumbrances (other than non-exclusive licenses granted pursuant to the license agreements listed in Part 2.8(c) of the TPT Disclosure Schedule).

(f) **Valid and Enforceable.** To TPT's Knowledge all TPT IP is valid, subsisting, and enforceable. Without limiting the generality of the foregoing:

(i) Each U.S. patent application and U.S. patent owned by any TPT Corporation was filed within one year of a printed publication, public use, or offer for sale of each invention described in the U.S. patent application or U.S. patent. Each foreign patent application and foreign patent owned by any TPT Corporation was filed or claims priority to a patent application filed prior to each invention described in the foreign patent application or foreign patent being made available to the public. No trademark or trade name owned, used, or applied for by any TPT Corporation conflicts or interferes with any trademark or trade name owned, used, or applied for by any other Person. TPT has no Knowledge with respect to and is not aware of any other basis for a claim that any of the TPT IP is invalid or unenforceable.

(ii) All TPT IP that is Registered IP is in compliance with all formal Legal Requirements and all filings, payments, and other actions required to be made or taken to maintain such Registered IP in full force and effect have been made by the applicable deadline. Part 2.8(f)(ii) of the TPT Disclosure Schedule contains a complete and accurate list of all actions, filings, and payments that must be taken or made within ninety (90) days after the Closing Date in order to maintain such Registered IP in full force and effect.

(iii) No Legal Proceeding (including any interference, opposition, reissue, or reexamination proceeding) is pending or, to TPT's Knowledge, threatened, and since October 4, 2006 there has been no Legal Proceeding, in which the scope, validity, or enforceability of any TPT IP is being, has been, or could reasonably be expected to be contested or challenged.

(g) **Trade Secrets.** Each TPT Corporation has taken all reasonable steps to maintain the confidentiality of and otherwise protect and enforce its respective rights in its respective Trade Secrets.

(h) **Employees and Contractors.** All employees and contractors of any TPT Corporation who were involved in the creation or development of the TPT IP have signed agreements containing intellectual property assignments and confidentiality provisions. No past or present shareholder, officer, director, or employee of any TPT Corporation has any claim, right, or interest to or in any TPT IP.

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- (i) **Chain of Title.** TPT has properly recorded assignments from all named inventors for all patents and patent applications included in the Registered IP owned or purported to be owned by any TPT Corporation.
- (j) **Impairment of Goodwill.** The goodwill associated with or inherent in the each TPT Corporation's respective trademarks (both registered and unregistered) has not been impaired.
- (k) **Infringement of TPT IP by Third Parties.** To TPT's Knowledge, no Person has infringed, misappropriated, or otherwise violated, and no Person is currently infringing, misappropriating, or otherwise violating, any TPT IP.
- (l) **Government Rights.** No government funding or personnel were used, directly or indirectly, to develop or create, in whole or in part, any TPT IP.
- (m) **Effects of This Transaction.** Neither the execution or delivery of this Agreement nor the performance of this Agreement and the consummation of the Contemplated Transactions will, with or without notice or lapse of time, result in, or give any other Person the right or option to cause or declare, (i) a loss of, or Encumbrance or restriction on, any TPT IP or any license to Intellectual Property or Intellectual Property Rights held by any TPT Corporation; (ii) a breach of any license agreement listed or required to be listed in Part 2.9(b) of the TPT Disclosure Schedule; (iii) the release or delivery of any TPT IP to any other Person; or (iv) the grant, assignment, or transfer to any other Person of any license or other right or interest under, to, or in any of the TPT IP.
- (n) **No Infringement of Third Party IP Rights.** To TPT's Knowledge no TPT Corporation has ever infringed, misappropriated, or otherwise violated the Intellectual Property Rights of any other Person, which infringement or misappropriation would reasonably be expected to have a TPT Material Adverse Effect. Without limiting the generality of the foregoing, to TPT's Knowledge no product, information, or service ever manufactured, produced, distributed, published, used, provided, or sold by or on behalf of any TPT Corporation, and no Intellectual Property ever owned, used, or developed by any TPT Corporation, has infringed, misappropriated, or otherwise violated the Intellectual Property Rights of any other Person, which infringement or misappropriation would reasonably be expected to have a TPT Material Adverse Effect.
- (o) **Pending, Threatened, or Possible IP Infringement Claims.** There are no pending or to TPT's Knowledge threatened infringement, misappropriation, or similar claims or Legal Proceedings against any TPT Corporation or against any other Person who would be entitled to indemnification by any TPT Corporation for such claim or Legal Proceeding. No TPT Corporation has ever received any notice or other communication (in writing or otherwise) of any actual, alleged, possible, potential, or suspected infringement or misappropriation of any other Person's Intellectual Property Rights by any TPT Corporation or by any product or service developed, manufactured, distributed, provided, or sold by or on behalf of any TPT Corporation.
- (p) **Other Infringement Liability.** Except as may be set forth in the TPT Contracts listed on Parts 2.8(b) and (c) of the TPT Disclosure Schedule, no TPT Corporation is bound by any Contract, or any commitment or promise, to indemnify any other Person for intellectual property infringement, misappropriation, or similar claims (other than the express infringement indemnities included in standard form sales or license agreements entered into by any TPT Corporation in the ordinary course of business). No TPT Corporation has assumed from any other Person any existing or potential liability for infringement, misappropriation, or violation of Intellectual Property Rights.
- (q) **Infringement Claims Relating to Third Party IP Licensed to TPT.** To TPT's Knowledge there are no pending or threatened claims or proceedings involving Intellectual Property or Intellectual Property Rights licensed to any TPT Corporation that could reasonably be expected to adversely affect the use or exploitation thereof by any TPT Corporation or the manufacturing, distribution, or sale of any products or services currently being developed, offered, manufactured, distributed, or sold by any TPT Corporation.
- (r) **Sufficiency.** To TPT's Knowledge, each TPT Corporation owns or otherwise has all Intellectual Property Rights needed to conduct their respective businesses as currently conducted or planned to be conducted.

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(s) **Employee Issues.** No current employee of any TPT Corporation is subject to any Contract restricting him or her from performing his or her duties for any TPT Corporation.

2.9 **No Undisclosed Liabilities.** Except as set forth in Part 2.9 of the TPT Disclosure Schedule, the TPT Corporations have no liabilities or obligations of any nature (whether absolute, accrued, contingent, determined, determinable, choate, inchoate or otherwise), except for (a) liabilities or obligations reflected or reserved against in the TPT Balance Sheet, or (b) current liabilities incurred in the ordinary course of business, consistent with past practice, since the date of the TPT Balance Sheet that, individually or in the aggregate, would not have a TPT Material Adverse Effect.

2.10 **Taxes.**

(a) **Jurisdiction.** Part 2.10(a) of the TPT Disclosure Schedule contains a true, correct and complete list of all jurisdictions (whether foreign or domestic) in which each of the TPT Corporations does or is required to file Tax Returns. No claim has ever been made in writing by a Governmental Body in a jurisdiction where the TPT Corporations do not file Tax Returns that they are or may be subject to taxation or to a requirement to file Tax Returns in that jurisdiction.

(b) **Timely Filing of Tax Returns.** The TPT Corporations have filed or caused to be filed all Tax Returns that are or were required to be filed by or with respect to any of them, either separately or as a member of a group of corporations, pursuant to applicable Legal Requirements. All Tax Returns filed by (or that include on a consolidated basis) any of the TPT Corporations were (and, as to Tax Returns not filed as of the date hereof, will be) in all respects true, complete and correct and filed on a timely basis.

(c) **Payment of Taxes.** The TPT Corporations have, within the time and in the manner prescribed by law, paid (and until Closing will pay within the time and in the manner prescribed by law) all Taxes that are due and payable.

(d) **Withholding Taxes.** Each of the TPT Corporations have complied (and until the Closing will comply) with all applicable Legal Requirements relating to the payment and withholding of Taxes (including, but not limited to, withholding and reporting requirements under the Code or Sections 1441 through 1464, 3401 through 3406, 6041 and 6049 of the Code, and similar provisions under any other laws) and have, within the times and in the manner prescribed by law, withheld from employee wages and paid over to proper Governmental Bodies all amounts required.

(e) **Audits.** Except as set forth in Part 2.10(e) of the TPT Disclosure Schedule, no Tax Return of any of the TPT Corporations is under audit or examination by any Taxing Authority, and no written notice of such an audit or examination has been received by any of the TPT Corporations and, the TPT Corporations have no Knowledge of any threatened audits, investigations or claims for or relating to Taxes, and there are no matters under discussion with any Taxing Authority with respect to Taxes. Except as set forth in Part 2.10(e) of the TPT Disclosure Schedule, no issues relating to Taxes were raised in writing by the relevant Taxing Authority during any presently pending audit or examination. Part 2.10(e) of the TPT Disclosure Schedule lists, and TPT has delivered to Raptor copies of, all examiner's or auditor's reports, notices of proposed adjustments or similar commissions received by any of the TPT Corporations from any Taxing Authority since October 4, 2006. The U.S. Federal Income Tax Returns of the TPT Corporations consolidated in such returns have been examined by and settled with the Internal Revenue Service for all years, or all years are otherwise closed, through the taxable year ended December 31, 2005.

(f) **Tax Reserves.** The charges, accruals, and reserves with respect to Taxes on the respective books of each of the TPT Corporations are adequate (and until Closing will continue to be adequate) to pay all Taxes not yet due and payable and have been determined in accordance with GAAP. No differences exist between the amounts of the book basis and the tax basis of assets (net of liabilities) that are not accounted for on any accrual on the books of the TPT Corporations for federal income tax purposes. Except as disclosed in Part 2.10(f) of the TPT Disclosure Schedule, there exists no proposed assessment of Taxes against any of the TPT Corporations.

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(g) Tax Liens. No Encumbrance for Taxes exists with respect to any assets or properties of any of the TPT Corporations, nor will any such Encumbrance exist at Closing except for statutory liens for Taxes not yet due.

(h) Tax Sharing Agreements. Part 2.10(h) of the TPT Disclosure Schedule lists, and TPT has delivered to Raptor copies of, any Tax sharing agreement, Tax allocation agreement, Tax indemnity obligation or similar written or unwritten agreement, arrangement, understanding or practice with respect to Taxes that is in effect (including any advance pricing agreement, Closing Agreement or other agreement relating to Taxes with any Taxing Authority) to which any of the TPT Corporations is a party or by which any of the TPT Corporations is bound. No such agreements shall be modified or terminated prior to Closing without the Consent of Raptor.

(i) Extensions of Time for Filing Tax Returns. None of the TPT Corporations has requested any extension of time within which to file any Tax Return, which Tax Return has not since been filed.

(j) Waiver of Statutes of Limitations. None of the TPT Corporations has executed any outstanding waivers or comparable consents regarding the application of the statute of limitations with respect to any Taxes or Tax Returns.

(k) Powers of Attorney. No power of attorney currently in force has been granted by any of the TPT Corporations concerning any Taxes or Tax Return.

(l) Tax Rulings. None of the TPT Corporations has received or been the subject of a Tax Ruling or a request for Tax Ruling. None of the TPT Corporations has entered into a Closing Agreement with any Governmental Body that would have a continuing effect after the Closing Date.

(m) Availability of Tax Returns. Part 2.10(m) of the TPT Disclosure Schedule lists, and TPT has made available to Raptor true, complete and accurate copies of all material Tax Returns, and any amendments thereto, filed by or on behalf of, or which include, any of the TPT Corporations, for the years ended December 31, 2006, 2007 and 2008.

(n) Opinions of Counsel. Part 2.10(n) of the TPT Disclosure Schedule lists, and TPT has provided to Raptor true, complete and accurate copies of all opinions of counsel, whether inside or outside counsel, and all opinions of accountants or other tax advisors, which have been received by any of the TPT Corporations with respect to Taxes.

(o) Intercompany Transactions. None of the TPT Corporations has engaged in any transactions with Affiliates which would require the recognition of income by any of the TPT Corporations with respect to such transaction for any period ending on or after the Closing Date.

(p) Real Property Transfer Tax. Except as set forth in Part 2.10(p) of the TPT Disclosure Schedule, none of the TPT Corporations owns any interest in real estate as a result of which ownership the Merger or any related Contemplated Transaction would be subject to any realty transfer Tax or similar Tax.

(q) Section 162(m). The disallowance of a deduction under Section 162(m) of the Code for employee remuneration would not reasonably be expected to apply to any amount paid or payable by any of the TPT Corporations under any TPT Corporation Contract, Benefit Plan, program, arrangement or understanding currently in effect.

(r) Section 280G. None of the TPT Corporations is a party to any agreement, contract or arrangement that has resulted or would reasonably be expected to result, separately or in the aggregate, in the payment of a parachute payment within the meaning of Section 280G of the Code.

(s) Qualification as a Reorganization. None of the TPT Corporations has taken any action, nor to TPT's Knowledge is there any fact or circumstance, that could reasonably be expected to prevent the Merger from qualifying as a reorganization within the meaning of Section 368(a) of the Code.

(t) Section 355 Representation. None of the TPT Corporations has constituted either a distributing corporation or a controlled corporation in a distribution of stock qualifying for tax free treatment under

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Section 355 of the Code (i) in the two years prior to the date of this Agreement or (ii) in a distribution which could otherwise constitute part of a plan or series of related transactions (within the meaning of Section 355(e) of the Code) in connection with the Merger.

2.11 Employee Benefits.

(a) Except as required under this Agreement, since December 31, 2008, there has not been (i) any adoption or amendment of any Benefit Plan, or (ii) any adoption of, or amendment to, or change in employee participation or coverage under, any Benefit Plan that would increase the expense of maintaining such Benefit Plan above the level of the expense incurred in respect thereof for the fiscal year ended on December 31, 2008. Except as expressly contemplated hereby, neither the execution and delivery of this Agreement nor the consummation of the Contemplated Transactions will (either alone or in conjunction with any other event) result in, cause the accelerated vesting or delivery of, or increase the amount or value of, any payment or benefit to any employee of any TPT Corporation and all Benefit Plans permit continuation by TPT upon consummation of the Contemplated Transactions without the Consent of any participant.

(b) For purposes of this Agreement, the following definitions apply: **Controlled Group Liability** means any and all liabilities under (i) Title IV of ERISA, (ii) section 302 of ERISA, (iii) sections 412, 430 and 4971 of the Code, (iv) the continuation coverage requirements of section 601 et seq. of ERISA and section 4980B of the Code, and (v) corresponding or similar provisions of foreign laws or regulations, and **ERISA Affiliate** means, with respect to any Entity, trade or business, any other Entity, trade or business that is a member of a group described in Section 414(b), (c), (m) or (o) of the Code or Section 4001 (b)(1) of ERISA that includes the first Entity, trade or business, or that is a member of the same controlled group as the first Entity, trade or business pursuant to Section 4001(a)(14) of ERISA.

(c) Part 2.11(c) of the TPT Disclosure Schedule includes a true, correct and complete list of all Benefit Plans.

(d) With respect to each Benefit Plan, TPT has delivered to Raptor a true, correct and complete copy of: (i) each writing constituting a part of such Benefit Plan, including without limitation all plan documents, benefit schedules, trust agreements, and insurance contracts and other funding vehicles; (ii) the three most recent Annual Report (Form 5500 Series) and accompanying schedules, if any; (iii) the current summary plan description and any summaries of material modifications, if any; (iv) the most recent annual financial report, if any; (v) the most recent actuarial report, if any; (vi) the most recent determination letter from the IRS, if any, (vii) all contracts relating to each Benefit Plan, including administrative service agreements and group insurance contracts; (viii) all minutes from all fiduciary and administrative committee meetings during the past three years for all Benefit Plans that are employee pension benefit plans within the meaning of ERISA Section 2; and (ix) all correspondence to or from any governmental Entity relating to any Benefit Plan. Except as specifically provided in the foregoing documents delivered to Raptor, there are no amendments to any Benefit Plan or any new Benefit Plan that have been adopted or approved nor has TPT undertaken to make any such amendments or adopt or approve any new Benefit Plan since December 31, 2008.

(e) Part 2.11(e) of the TPT Disclosure Schedule identifies each Benefit Plan that is intended to be a qualified plan within the meaning of Section 401(a) of the Code (**Qualified Plans**). The Internal Revenue Service has issued a favorable determination letter, or opinion letter, with respect to each Qualified Plan that has not been revoked, and, there are no existing circumstances nor any events that have occurred that could reasonably be expected to adversely affect the qualified status of any Qualified Plan or the related trust. No Benefit Plan is intended to meet the requirements of Code Section 501(c)(9).

(f) All contributions required to be made to any Benefit Plan by applicable Legal Requirements or by any plan document or other contractual undertaking, and all premiums due or payable with respect to insurance policies funding any Benefit Plan, for any period through the date hereof have been timely made or paid in full or, to the extent not required to be made or paid on or before the date hereof, have been fully reflected on the financial statements contained in the TPT SEC Reports.

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(g) Each Benefit Plan has been maintained and administered in compliance with its terms and in all respects with the applicable requirements of ERISA, the Code and any other applicable Legal Requirements. There is not now, nor to TPT's Knowledge, do any circumstances exist that could give rise to, any requirement for the posting of security with respect to a Benefit Plan or the imposition of any Encumbrance on the assets of the any TPT Corporation under ERISA or the Code. No prohibited transaction has occurred with respect to any Benefit Plan. None of the TPT Corporations has, nor to TPT's Knowledge has any other Person, engaged in any transaction with respect to any Benefit Plan that could reasonably be expected to subject any of the TPT Corporations to any Tax or penalty (civil or otherwise) imposed by ERISA, the Code or other applicable law or any participant to any Tax or penalty (civil or otherwise) imposed by ERISA, the Code or other applicable law (other than ordinary income tax in the normal course). All amendments required to be adopted before the effective dates for any qualified Benefit Plan to continue to be qualified have been or will be duly and timely adopted. Each Benefit Plan can be amended, terminated or otherwise discontinued after the Closing in accordance with its terms, without liability to Raptor, the Surviving Corporation or any of the TPT Corporations (other than ordinary administration expenses).

(h) No Benefit Plan is subject to Title IV or Section 302 of ERISA or Section 412, 430, or 4971 of the Code. All liabilities in connection with the termination of any Benefit Plan that was sponsored, maintained or contributed to by any TPT Corporation, or with respect to which any of them had any liability, at any time have been fully satisfied.

(i) No Benefit Plan is a multiemployer plan within the meaning of Section 4001(a)(3) of ERISA or a plan that has two or more contributing sponsors at least two of whom are not under common control, within the meaning of Section 4063 of ERISA and the TPT Corporations have no liabilities with respect to any such plan.

(j) There does not now exist, nor do any circumstances exist that could result in, any Controlled Group Liability that would be a liability of any TPT Corporation, Raptor or the Surviving Corporation following the Closing. Without limiting the generality of the foregoing, neither any TPT Corporation nor any ERISA Affiliate of any TPT Corporation has engaged in any transaction described in Section 4069 or Section 4204 of ERISA.

(k) No TPT Corporation has any liability for life, health, medical or other welfare benefits to former employees or beneficiaries or dependents thereof, except for health continuation coverage as required by Section 4980B of the Code or Part 6 of Title I of ERISA and similar state laws and at no expense to any TPT Corporation. With respect to each Benefit Plan that is an employee welfare benefit plan (within the meaning of Section 3(1) of ERISA), all claims under such Benefit Plan are (i) insured pursuant to a contract of insurance whereby the insurance company bears any risk of loss with respect to such claims, (ii) covered under a contract with a health maintenance organization (an HMO) pursuant to which the HMO bears the liability for claims or (iii) reflected as a liability or accrued for on the financial statements. Each individual who has elected and is currently entitled to COBRA continuation coverage and each individual who is entitled to elect COBRA continuation coverage is listed in Part 2.11(k)-1 of the TPT Disclosure Schedule. Part 2.11(k)-2 of the TPT Disclosure Schedule sets forth the date and type of the qualifying event for each person listed on such Schedule. Each individual who has elected COBRA continuation coverage has been charged the maximum COBRA premium permitted by COBRA and the TPT Corporations and the Benefit Plans have no obligation to charge any participant a lesser amount.

(l) All stock options or share appreciation rights granted by any of the TPT Corporations were granted using an exercise price or a base price, as the case may be, of not less than the fair market value of the underlying shares in accordance with applicable guidance under Section 409A of the Code on the date of grant, and are not otherwise subject to the requirements of Section 409A of the Code. None of the TPT Corporations is subject to any agreement or contract that would require it to gross up or otherwise compensate any current or former employee, officer, director, or other service provider because of the imposition of any income, excise, or other tax on a payment or benefit provided to such person.

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(m) No Benefit Plan is subject to the laws other than those of the United States. No individual who was classified by any of the TPT Corporations as an independent contractor is or has ever been eligible to participate in any Benefit Plans.

(n) There are no pending or, to TPT's Knowledge, threatened claims (other than claims for benefits in the ordinary course), lawsuits or arbitrations which have been asserted or instituted against the Benefit Plans, any fiduciaries thereof with respect to their duties to the Benefit Plans or the assets of any of the trusts under any of the Benefit Plans which could result in any liability of any TPT Corporation or any Benefit Plan.

(o) Part 2.11(o) of the TPT Disclosure Schedule contains a true, complete and accurate list as of the date of this Agreement of all loans and advances made by any of the TPT Corporations to any employee, director, consultant or independent contract, other than routine travel and expense advances made to employees in the ordinary course of business. No TPT Corporation has, since October 1, 2002, extended or maintained credit, arranged for the extension of credit, or renewed an extension of credit, in the form of a personal loan to or for any director or executive officer (or equivalent thereof) of TPT. Part 2.11(o) of the TPT Disclosure Schedule identifies any extension of credit maintained by the TPT Corporations to which the second sentence of Section 13(k)(1) of the Exchange Act applies.

2.12 Compliance with Legal Requirements; Governmental Authorizations.

(a) Except as set forth in Part 2.12(a) of the TPT Disclosure Schedule, the TPT Corporations are, and at all times since October 4, 2006 have been, in material compliance with each Legal Requirement that is or was applicable to any of them or to the conduct or operation of their business or the ownership or use of any of their assets, including, without limitation, any regulation issued under any such Legal Requirement; no event has occurred or circumstance exists that (with or without notice or lapse of time or both) (i) may constitute or result in a material violation by any of the TPT Corporations of, or a substantial failure on the part of any of the TPT Corporations to comply with, any Legal Requirement, or (ii) may give rise to any obligation on the part of any of the TPT Corporations to undertake, or to bear all or any portion of the cost of, any substantial remedial action of any nature; and none of the TPT Corporations has received, at any time since October 4, 2006, any notice or other communication (whether oral or written) from any Governmental Body or any other Person regarding (x) any actual, alleged, possible, or potential violation of, or failure to comply with, any Legal Requirement, (y) any actual, alleged, possible, or potential obligation on the part of any of the TPT Corporations to undertake, or to bear all or any portion of the cost of, any remedial action of any nature, or (z) any investigation with respect to any such Legal Requirement, including Legal Requirements of the United States Food and Drug Administration (the *FDA*), the European Medicines Agency (*EMA*) and other comparable Governmental Bodies.

(b) The TPT Corporations have all material Governmental Authorizations required to conduct their respective businesses as now being conducted. Such Governmental Authorizations are valid and in full force and effect, and the TPT Corporations and Persons acting in concert with and on behalf of the TPT Corporations are in compliance in all material respects with all such Governmental Authorizations. TPT has provided to Raptor a true, accurate and complete copy of all such material Governmental Authorizations from the FDA and the EMA.

(c) The TPT Corporations and, to TPT's Knowledge, Persons acting in concert with and on behalf of any TPT Corporation:

(i) have not used in any capacity the services of any individual or Entity debarred, excluded, or disqualified under 21 U.S.C. Section 335a, 42 U.S.C. Section 1320a-7, 21 C.F.R. Section 312.70, or any similar laws, rules or regulations; and

(ii) have not been convicted of any crime or engaged in any conduct that has resulted, or would reasonably be expected to result, in debarment, exclusion, or disqualification under 21 U.S.C. Section 335a, 42 U.S.C. Section 1320a-7, 21 C.F.R. Section 312.70, or any similar laws, rules or regulations.

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(d) None of the TPT Corporations, and (to the Knowledge of TPT) no Representative of any TPT Corporation with respect to any matter relating to any of the TPT Corporations, has: (i) used any funds for unlawful contributions, gifts, entertainment or other unlawful expenses relating to political activity; (ii) made any unlawful payment to foreign or domestic government officials or employees or to foreign or domestic political parties or campaigns or violated any provision of the Foreign Corrupt Practices Act of 1977, as amended; or (iii) made any other unlawful payment.

(e) No product or product candidate manufactured, tested, distributed, held or marketed by or on behalf of any of the TPT Corporations has been recalled, withdrawn, suspended or discontinued (whether voluntarily or otherwise) since October 4, 2006. At no time since October 4, 2006, has any of the TPT Corporations received notice that any Governmental Body or institutional review board or comparable body has commenced, or threatened to initiate, any proceeding seeking the recall, market withdrawal, suspension or withdrawal of approval, or seizure of any such product or product candidate; the imposition of material sales, marketing or production restriction on any product or product candidate; or the suspension, termination or other restriction of preclinical or clinical research by or on behalf of any of the TPT Corporations, including any action regarding any investigator participating in any such research, nor is any such proceeding pending. TPT has, prior to the execution of this Agreement, provided to Raptor all information about serious adverse drug experiences since October 4, 2006 obtained or otherwise received by any of the TPT Corporations from any source, in the United States or outside the United States, including information derived from clinical investigations prior to any market authorization approvals, commercial marketing experience, postmarketing clinical investigations, postmarketing surveillance studies or registries, reports in the scientific literature, and unpublished scientific papers relating to any product or product candidate manufactured, tested, distributed, held or marketed by any of the TPT Corporations or any of their licensors or licensees in the possession of any of the TPT Corporations (or to which any of them has access), except for any adverse drug experiences that would not, or would not reasonably be expected to, individually or in the aggregate, have a TPT Material Adverse Effect.

(f) None of the TPT Corporations, or, to TPT's Knowledge, Persons acting in concert with or on behalf of any TPT Corporation, or, to TPT's Knowledge, any officers, employees or agents of the same has with respect to any product that is manufactured, tested, distributed, held or marketed by or on behalf of any of any TPT Corporation made an untrue statement of a material fact or fraudulent statement to the FDA, the EMEA or any other Governmental Body, failed to disclose a material fact required to be disclosed to the FDA, the EMEA or any other Governmental Body, or committed an act, made a statement, or failed to make a statement that, at the time such disclosure was made, would reasonably be expected to provide a basis for the FDA to invoke its policy respecting Fraud, Untrue Statements of Material Facts, Bribery, and Illegal Gratuities set forth in 56 Fed. Reg. 46191 (September 10, 1991) or for the EMEA or any other Governmental Body to invoke any similar policy.

(g) All preclinical safety pharmacology and toxicology studies and all clinical studies relating to product or product candidates, conducted by or on behalf of any TPT Corporation have been, or are being, conducted in compliance with the applicable requirements of the FDA's Good Laboratory Practice and Good Clinical Practice requirements, including regulations under 21 C.F.R. Parts 50, 54, 56, 58, 312 and applicable guidance documents, as amended from time to time, the Animal Welfare Act, and all applicable similar requirements in other jurisdictions, and all requirements relating to protection of human subjects.

(h) TPT (or another TPT Corporation) and its Affiliates have filed with the FDA, the EMEA, any other Governmental Authority, and any institutional review board or comparable body, all filings, reports, responses, required notices, supplemental applications, and annual or other reports, responses to requests for information or other submissions required by applicable Legal Requirement, or requested by FDA, EMEA or any other Governmental Body having jurisdiction over any TPT Corporation or their respective businesses and/or clinical trials and applications, including but not limited to all reports of clinical trials, reports of adverse consequences or adverse reactions, and similar reports regarding the conduct of and results of clinical trials, each investigational new drug application or any comparable foreign regulatory application, including any such report related to the manufacture, testing, study, or sale of any product or product candidate, as applicable.

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(i) TPT (or another TPT Corporation) and its Affiliates have maintained and currently maintain all records, documents, reports and other information required under FDA guidance to support any IND, NDA or ANDA applications for each product under development or undergoing clinical trial, including without limitation, all records, documents and other information related to Good Laboratory Practice, Good Clinical Practice, or Good Manufacturing Practice for each such product or proposed product; all records relating to the qualification and selection of clinical investigators; all records related to the qualification and selection of, and informed Consent given by, each participant in any trial; and all clinical reports or records and analysis of clinical trial results.

(j) TPT (or another TPT Corporation) and its Affiliates have manufactured all products used in clinical trials in accordance with Good Manufacturing Practice, and have maintained all records regarding purity, concentration, and shelf life, allocation of product to investigators, and recovery or destruction of outdated or unused clinical trial product.

2.13 Environmental Matters.

(a) Each of the TPT Corporations: (i) is and has been in compliance in all material respects with, and has not been and is not in material violation of or subject to any material liability under, any applicable Environmental Requirements; and (ii) possesses all permits and other Environmental Authorizations, and is in compliance with the terms and conditions thereof.

(b) None of the TPT Corporations has received any notice or other communication (in writing or otherwise), whether from a Governmental Body, citizens group, TPT Representative or otherwise, that alleges that any of the TPT Corporations is not or might not be in compliance with any Environmental Requirement or Environmental Authorization, and, to the Knowledge of TPT, there are no circumstances that may prevent or interfere with the compliance by any of the TPT Corporations with any Environmental Requirement or Environmental Authorization in the future.

(c) To the Knowledge of TPT: (i) all property that is or was leased to, controlled by or used by any of the TPT Corporations, and all surface water, groundwater and soil associated with or adjacent to such property, is free of any Materials of Environmental Concern or material environmental contamination of any nature; (ii) none of the property that is or was leased to, controlled by or used by any of the TPT Corporations contains any underground storage tanks, asbestos, equipment using PCBs or underground injection wells; and (iii) none of the property that is or was leased to, controlled by or used by any of the TPT Corporations contains any septic tanks in which process wastewater or any Materials of Environmental Concern have been Released.

(d) For purposes of this Agreement: (i) **Environmental Requirement** means any federal, state, local or foreign Legal Requirement, Order, writ, injunction, directive, authorization, judgment, decree, grant, franchise, Contract or other governmental restriction and requirement, whether judicial or administrative, relating to pollution or protection of human health and safety, natural resources or the Environment (including ambient air, surface water, ground water, land surface or subsurface strata), including any Legal Requirement relating to emissions, discharges, releases or threatened releases of Materials of Environmental Concern, or otherwise relating to the manufacture, processing, distribution, use, treatment, storage, disposal, transport or handling of Materials of Environmental Concern; (ii) **Environmental Authorization** means any Governmental Authorization required under applicable Environmental Requirements; (iii) **Materials of Environmental Concern** include chemicals, pollutants, contaminants, wastes, toxic substances, petroleum and petroleum products and any other substance that is now or hereafter regulated by any Environmental Requirement or that is otherwise a danger to health, reproduction or the Environment; and (iv) **Release** means any spilling, leaking, emitting, discharging, depositing, escaping, leaching, dumping or other releasing into the Environment, whether intentional or unintentional.

2.14 Legal Proceedings.

(a) Except as set forth in Part 2.14 of the TPT Disclosure Schedule, there is no pending Legal Proceeding (i) that has been commenced by or against any of the TPT Corporations or that otherwise relates

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to or may affect the business of, or any of the assets owned or used by, any of the TPT Corporations, except for such Legal Proceedings as could not reasonably be expected to, individually or in the aggregate, result in a TPT Material Adverse Effect, (ii) that challenges, or that may have the effect of preventing, delaying, making illegal, or otherwise interfering with, any of the Contemplated Transactions, or (iii) against any director or officer of any of the TPT Corporations pursuant to Section 8A or 20(b) of the Securities Act or Section 21(d) or 21C of the Exchange Act.

(b) To TPT's Knowledge, (i) no Legal Proceeding that if pending would be required to be disclosed under the preceding paragraph has been threatened, and (ii) no event has occurred or circumstance exists that may give rise to or serve as a basis for the commencement of any such Legal Proceeding.

2.15 **Absence of Certain Changes and Events.** Except as set forth in Part 2.15 of the TPT Disclosure Schedule or as otherwise expressly contemplated by this Agreement, since the date of the TPT Balance Sheet, the TPT Corporations have conducted their businesses only in the ordinary course of business, consistent with past practices and there has not been any TPT Material Adverse Effect, and no event has occurred or circumstance exists that may result in a TPT Material Adverse Effect, any action or event of the type described in Section 4.2 or:

(a) any material loss, damage or destruction to, or any material interruption in the use of, any of the assets of any of the TPT Corporations (whether or not covered by insurance) that has had or could reasonably be expected to have a TPT Material Adverse Effect;

(b)(i) any declaration, accrual, set aside or payment of any dividend or any other distribution in respect of any shares of capital stock of any TPT Corporation, or (ii) any repurchase, redemption or other acquisition by any TPT Corporation of any shares of capital stock or other securities;

(c) any sale, issuance or grant, or authorization of the issuance of, (i) any capital stock or other security of any TPT Corporation (except for TPT Common Stock issued upon the valid exercise of outstanding TPT Stock Options, TPT Warrants, or the valid settlement of outstanding TPT Restricted Stock Units), (ii) any option, warrant or right to acquire any capital stock or any other security of any TPT Corporation (except for TPT Stock Options, TPT Warrants, and TPT Restricted Stock Units described in Section 2.3), or (iii) any instrument convertible into or exchangeable for any capital stock or other security of any TPT Corporation;

(d) any amendment or waiver of any of the rights of any TPT Corporation under, or acceleration of vesting under, (i) any provision of the TPT Stock Plan, (ii) any provision of any Contract evidencing any outstanding TPT Stock Option, TPT Warrant, or TPT Restricted Stock Unit, or (iii) any restricted stock purchase agreement;

(e) any amendment to any Organizational Document of any of the TPT Corporations, any merger, consolidation, share exchange, business combination, recapitalization, reclassification of shares, stock split, reverse stock split or similar transaction involving any TPT Corporation;

(f) any creation of any Subsidiary, other than Merger Sub, of any TPT Corporation or acquisition by any TPT Corporation of any equity interest or other interest in any other Person;

(g) any capital expenditure by any TPT Corporation which, when added to all other capital expenditures made on behalf of the TPT Corporations since the date of the TPT Balance Sheet, exceeds \$25,000 in the aggregate;

(h) except in the ordinary course of business and consistent with past practice, any action by any TPT Corporation to (i) enter into or suffer any of the assets owned or used by it to become bound by any TPT Material Contract, or (ii) amend or terminate, or waive any material right or remedy under any TPT Material Contract;

(i) any (i) acquisition, lease or license by any TPT Corporation of any material right or other material asset from any other Person, (ii) sale or other disposal or lease or license by any TPT Corporation of any material right or other material asset to any other Person, or (iii) waiver or relinquishment by any TPT

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Corporation of any right, except for rights or other assets acquired, leased, licensed or disposed of in the ordinary course of business and consistent with past practices;

(j) any write-off as uncollectible of, or establishment of any extraordinary reserve with respect to, any account receivable or other indebtedness of any TPT Corporation;

(k) any pledge of any assets of or sufferance of any of the assets of any TPT Corporation to become subject to any Encumbrance, except for pledges of immaterial assets made in the ordinary course of business and consistent with past practices;

(l) any (i) loan by any TPT Corporation to any Person, or (ii) incurrence or guarantee by any TPT Corporation of any indebtedness for borrowed money;

(m) any (i) adoption, establishment, entry into or amendment by any TPT Corporation of any Benefit Plan or (ii) payment of any bonus or any profit sharing or similar payment to, or material increase in the amount of the wages, salary, commissions, fringe benefits or other compensation or remuneration payable to, any of the directors, officers or employees of any TPT Corporation;

(n) any change of the methods of accounting or accounting practices of any TPT Corporation in any material respect;

(o) any material Tax election by any TPT Corporation;

(p) any commencement or settlement of any Legal Proceeding by any TPT Corporation; or

(q) any agreement or commitment to take any of the actions referred to in clauses (b) through (p) above.

2.16 Contracts: No Defaults.

(a) Part 2.16(a) of the TPT Disclosure Schedule lists, and, except to the extent filed in full without redaction as an exhibit to a TPT SEC Report, TPT has delivered to Raptor copies of, each TPT Corporation Contract and other instrument or document currently in effect or pursuant to which TPT has continuing obligations (including any amendment to any of the following):

(i) described in any paragraphs of Item 601(b) of Regulation S-K of the SEC;

(ii) with any director, officer or Affiliate of TPT;

(iii) evidencing, governing or relating to indebtedness for borrowed money;

(iv) not entered into in the ordinary course of business that involves expenditures or receipts in excess of \$25,000;

(v) currently in effect that in any way purports to restrict the business activity of any TPT Corporation or any of its Affiliates, or to limit the freedom of any TPT Corporation or any of its Affiliates to engage in any line of business or to compete with any Person or in any geographic area or to hire or retain any Person;

(vi) relating to the employment of, or the performance of services by, any employee or consultant not terminable by TPT or its Subsidiaries on ninety (90) days notice without liability, or pursuant to which any of the TPT Corporations is or may become obligated to make any severance, termination or similar payment to any current or former employee or director, or pursuant to which any of the TPT Corporations is or may become obligated to make any bonus or similar payment (other than payments constituting base salary) in excess of \$5,000 to any current or former employee or director;

(vii) relating to the acquisition, transfer, development, sharing or licensing of any TPT IP (except for any Contract pursuant to which (1) any Intellectual Property is licensed to any TPT Corporation under any third party software license generally available to the public, or (2) any Intellectual Property is licensed by any of the TPT Corporations to any Person on a nonexclusive basis);

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(viii) providing for indemnification of any officer, director, employee or agent;

(ix) currently in force (A) relating to the acquisition, issuance, voting, registration, sale or transfer of any securities, (B) providing any Person with any preemptive right, right of participation, right of maintenance or any similar right with respect to any securities, or (C) providing any of the TPT Corporations with any right of first refusal with respect to, or right to repurchase or redeem, any securities, except for Contracts evidencing TPT Stock Options, TPT Warrants or TPT Restricted Stock Units;

(x) incorporating or relating to any guaranty, any warranty or any indemnity or similar obligation not entered into in the ordinary course of business, except for Contracts substantially identical to the standard forms of end user licenses previously delivered by TPT to Raptor;

(xi) relating to any currency hedging;

(xii) containing standstill or similar provisions;

(xiii) (A) to which any Governmental Body is a party or under which any Governmental Body has any rights or obligations, or (B) directly or indirectly benefiting any Governmental Body (including any subcontract or other Contract between any TPT Corporation and any contractor or subcontractor to any Governmental Body);

(xiv) requiring that any of the TPT Corporations give any notice or provide any information to any Person prior to considering or accepting any Acquisition Proposal or similar proposal, or prior to entering into any discussions, agreement, arrangement or understanding relating to any Acquisition Transaction or similar transaction;

(xv) contemplating or involving the payment or delivery of cash or other consideration in an amount or having a value in excess of \$25,000 in the aggregate, or contemplating or involving the performance of services after the date of this Agreement having a value in excess of \$25,000 in the aggregate;

(xvi) required to be listed on Part 2.7-2 of the TPT Disclosure Schedule;

(xvii) that could reasonably be expected to have a material effect on the business, condition, capitalization, assets, liabilities, operations or financial performance of any of the TPT Corporations or on any of the Contemplated Transactions; and

(xviii) any other Contract, if a breach of such Contract could reasonably be expected to have a TPT Material Adverse Effect.

Each of the foregoing is a ***TPT Material Contract***.

(b) Each TPT Material Contract is valid and in full force and effect, and is enforceable in accordance with its terms, subject to: (i) laws of general application relating to bankruptcy, insolvency and the relief of debtors; and (ii) rules of law governing specific performance, injunctive relief and other equitable remedies.

(c) Except as set forth in Part 2.16(c) of the TPT Disclosure Schedule: (i) none of the TPT Corporations has violated or breached, or committed any default under, any TPT Material Contract, except for violations, breaches and defaults that have not had and would not reasonably be expected to have a TPT Material Adverse Effect; and, to the TPT's Knowledge, no other Person has violated or breached, or committed any default under, any TPT Material Contract, except for violations, breaches and defaults that have not had and would not reasonably be expected to have a TPT Material Adverse Effect; (ii) to the TPT's Knowledge, no event has occurred, and no circumstance or condition exists, that (with or without notice or lapse of time) will or would reasonably be expected to, (A) result in a violation or breach of any of the provisions of any TPT Material Contract, (B) give any Person the right to declare a default or exercise any remedy under any TPT Material Contract, (C) give any Person the right to accelerate the maturity or performance of any TPT Material Contract, or (D) give any Person the right to cancel, terminate or modify any TPT Material Contract, except in each such case for defaults, acceleration rights, termination rights and other rights that have not had and would not reasonably be expected to have a TPT Material Adverse Effect; and (iii) since October 4, 2006, none of the TPT

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Corporations has received any notice or other communication regarding any actual or possible violation or breach of, or default under, any TPT Corporation Contract, except in each such case for defaults, acceleration rights, termination rights and other rights that have not had and would not reasonably be expected to have a TPT Material Adverse Effect.

2.17 **Insurance.** Part 2.17 of the TPT Disclosure Schedule sets forth a true, correct and complete list of all insurance policies and fidelity bonds for the current policy year relating to any TPT Corporation (and to any predecessor corporation thereof, including, without limitation Axonyx Inc.), and its respective employees, officers and directors. All such insurance policies and fidelity bonds shall continue in full force and effect at and after the Effective Time with such limits and coverage as is currently in effect without the Consent of any Person or further action by any Merger Party hereto. Each TPT Corporation maintains, and has maintained, without interruption during its existence, policies of insurance covering such risk and events, including, without limitation, personal injury, property damage and general liability, in amounts that are adequate, in light of prevailing industry practices, for its business and operations, including, without limitation, amounts that are intended to cover the Lawsuits and all Costs associated therewith. None of the TPT Corporations has received notice of termination or cancellation of any such policy. None of the TPT Corporations has reached or exceeded its policy limits for any insurance policy in effect at any time during the past five (5) years. All premiums required to be paid with respect thereto covering all periods up to and including the Effective Time have been or will be paid in a timely fashion and there has been no lapse in coverage under such policies or failure of payment that will cause coverage to lapse during any period for which any TPT Corporation has conducted its operations. None of the TPT Corporations has any material obligation for retrospective premiums for any period prior to the Effective Time. All such policies are in full force and effect and will remain in full force and effect up to and including the Effective Time, and, where applicable, at or after the Effective Time, unless replaced with comparable insurance policies having comparable or more favorable terms and conditions. No insurer has put any TPT Corporation on notice that coverage will be denied with respect to any claim submitted to such insurer by any TPT Corporation (including any predecessor corporation thereof, including, without limitation Axonyx Inc.). There are no material claims by any TPT Corporation pending under any of such policies or bonds as to which coverage has been questioned, denied or disputed by the underwriters of such policies or bonds or in respect of which such underwriters have reserved their rights.

2.18 **Labor Matters.** Except as disclosed in the TPT SEC Reports, (i) none of the TPT Corporations is a party to, or bound by, any collective bargaining agreement, contract or other agreement or understanding with a labor union or labor organization; (ii) none of the TPT Corporations is the subject of any Legal Proceeding asserting that any of the TPT Corporations has committed an unfair labor practice or seeking to compel it to bargain with any labor organization as to wages or conditions of employment; (iii) there is no strike, work stoppage or other labor dispute involving any of the TPT Corporations pending or, to TPT's Knowledge, threatened; (iv) no complaint, charge or Legal Proceeding by or before any Governmental Body brought by or on behalf of any employee, prospective employee, former employee, retiree, labor organization or other representative of its employees is pending or, to TPT's Knowledge, threatened against any of the TPT Corporations; (v) no grievance is pending or, to TPT's Knowledge, threatened against any of the TPT Corporations; and (vi) none of the TPT Corporations is a party to, or otherwise bound by, any Consent decree with, or citation by, any Governmental Body relating to employees or employment practices. No labor organization or group of employees of any TPT Corporation has made a pending demand for recognition or certification, and there are no representation or certification proceedings or petitions seeking a representation proceeding presently pending or threatened to be brought or filed, with the National Labor Relations Board or any other labor relations tribunal or authority. Each of the TPT Corporations has complied with the Worker Adjustment and Retraining Notification Act and any similar state law, such as California Labor Code Section 1400, et seq. The TPT Corporations have not implemented any employee layoffs, hours reductions, or employment terminations that, standing alone or when aggregated with other past or future layoffs, hours reductions, or employment terminations could implicate the WARN Act or any similar state law, such as California Labor Code Section 1400, et. seq. Each of the TPT Corporations has been and is in material compliance with all applicable Legal Requirements respecting employment and employment practices, terms and

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conditions of employment, including, without limitation, wages and hours, labor relations, employment discrimination, disability rights or benefits, equal opportunity, plant closure or mass layoff issues, affirmative action, leaves of absence, occupational health and safety, workers compensation and unemployment insurance. None of the current or former independent contractors of the TPT Corporations was improperly classified as a non-employee and no current or former employees classified as exempt from overtime requirements were improperly classified as exempt. The TPT Corporations do not have any material unsatisfied obligations to any past or present employees or qualified beneficiaries pursuant to COBRA, HIPAA, or any state law governing health care coverage extension or continuation other than the payment of benefits in the ordinary course of business. Part 2.18 of the TPT Disclosure Schedule accurately identifies each former employee of any of the TPT Corporations who is receiving or is scheduled to receive (or whose spouse or other dependent is receiving or is scheduled to receive) any benefits (whether from any of the TPT Corporations or otherwise) relating to such former employee's employment with any of the TPT Corporations; and such Schedule accurately describes such benefits. The TPT Corporations have maintained worker's compensation coverage as required by applicable state law through the purchase of insurance and not by self-insurance or otherwise

2.19 **Interests of Officers and Directors.** None of the officers or directors of any of the TPT Corporations or any of their respective Affiliates (other than the TPT Corporations), or any associate (as such term is defined in Rule 14a-1 under the Exchange Act) of any such offer or director, has any interest in any property, real or personal, tangible or intangible, used in or pertaining to the business of the TPT Corporations, or in any supplier, distributor or customer of the TPT Corporations, or any other relationship, contract, agreement, arrangement or understanding with the TPT Corporations, except as disclosed in the TPT SEC Reports and except for the normal rights of a stockholder and rights under the Plans and the TPT Stock Options, the TPT Warrants and the TPT Restricted Stock Units.

2.20 **Rights Plan: DGCL Section 203.** TPT has amended the TPT Rights Agreement and taken all other action necessary or appropriate so that the execution and delivery of this Agreement by the Parties hereto, and the consummation by TPT of the Merger and the Contemplated Transactions, do not and will not cause Raptor or any of its stockholders, Subsidiaries or Affiliates to be within the definition of Acquiring Person under the TPT Rights Agreement. TPT has taken all appropriate actions so that the restrictions on business combinations contained in Section 203 of the DGCL will not apply to Raptor with respect to or as a result of the Contemplated Transactions.

2.21 **Brokers: Fees and Expenses.** Except for the Expenses incurred by TPT, no broker, finder, investment banker or other Person (other than the TPT Financial Advisor) is entitled to any brokerage, finder's or other fee or commission in connection with the Merger and the Contemplated Transactions based upon arrangements made by or on behalf of any TPT Corporation.

2.22 **Trading on NASDAQ.** As of the date of this Agreement, shares of TPT Common Stock are listed for trading on the NASDAQ Global Market and trading in TPT Common Stock on the NASDAQ Global Market has not been suspended.

2.23 **Valid Issuance.** The TPT Common Stock to be issued in the Merger will, when issued in accordance with the provisions of this Agreement, be validly issued, fully paid and nonassessable. The TPT Common Stock described in the preceding sentence will be issued in compliance with all federal securities laws and all applicable Blue Sky Laws.

2.24 **TPT Budget.** Part 2.24 of the TPT Disclosure Schedule sets forth the projected spending estimate of the TPT Corporations from September 1, 2009 through February 28, 2010 pursuant to the Employment Agreements (or such agreements they supersede).

2.25 **Disclosure.** None of the information supplied or to be supplied by or on behalf of TPT for inclusion or incorporation by reference in the Form S-4 Registration Statement will, at the time the Form S-4 Registration

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Statement is filed with the SEC or at the time it becomes effective under the Securities Act, contain any untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary in order to make the statements therein, in the light of the circumstances under which they are made, not misleading. None of the information supplied or to be supplied by or on behalf of TPT for inclusion or incorporation by reference in the Prospectus/Joint Proxy Statement will, at the time the Prospectus/Joint Proxy Statement is mailed to the stockholders of TPT or at the time of the TPT Stockholders Meeting, contain any untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary in order to make the statements therein, in the light of the circumstances under which they are made, not misleading. The Prospectus/Joint Proxy Statement will comply as to form in all material respects with the provisions of the Exchange Act and the rules and regulations promulgated by the SEC thereunder.

2.26 TPT Action.

(a) The board of directors of TPT (at a meeting duly called and held in accordance with the TPT's articles of incorporation and bylaws) has unanimously (i) determined that this Agreement and the Merger are advisable and in the best interests of TPT and its stockholders, (ii) duly and validly approved, adopted and declared advisable the Merger and this Agreement, and (iii) recommended the approval by the stockholders of TPT of the issuance of the TPT Common Stock in the Merger and the filing of the TPT Charter Amendment and directed that this Agreement be submitted to such stockholders for such approval, and, subject to the provisions of Section 4.7(c) after the date hereof, none of the aforementioned actions of the board of directors of TPT have been amended, modified or rescinded.

(b) The Required TPT Stockholder Vote is the only vote of the holders of any class or series of TPT's capital stock necessary to approve the issuance of the TPT Common Stock in the Merger and the filing of the TPT Charter Amendment. No vote by the TPT stockholders is required to adopt this Agreement or to approve the Merger.

SECTION 3

REPRESENTATIONS AND WARRANTIES OF RAPTOR.

Raptor represents and warrants to TPT and Merger Sub as follows except as set forth in the Raptor Disclosure Schedule:

3.1 Organization and Good Standing.

(a) Raptor and each of its Subsidiaries are corporations duly organized, validly existing, and in good standing under the laws of their respective jurisdictions of incorporation, with full corporate power and authority to conduct their respective businesses as now being conducted, to own or use the respective properties and assets that they purport to own or use, and to perform all their respective obligations under Contracts to which Raptor or any of its Subsidiaries is party or by which Raptor or any of its Subsidiaries or any of their respective assets are bound. Raptor and each of its Subsidiaries are duly qualified to do business as foreign corporations and are in good standing under the laws of each state or other jurisdiction in which either the ownership or use of the properties owned or used by them, or the nature of the activities conducted by them, requires such qualification, except where the failure to be so qualified could not reasonably be expected to, individually or in the aggregate, result in a Raptor Material Adverse Effect.

(b) Part 3.1(b) of the Raptor Disclosure Schedule lists all Raptor Corporations and indicates as to each the type of Entity, its jurisdiction of organization and, except in the case of Raptor, its stockholders or other equity holders. Part 3.1(b) of the Raptor Disclosure Schedule lists, and Raptor has delivered to TPT copies of, the Organizational Documents of each of the Raptor Subsidiaries, as currently in effect.

3.2 Authority; No Conflict.

(a) Raptor has all necessary corporate power and authority to execute and deliver this Agreement, to perform its obligations hereunder and to consummate the Contemplated Transactions, subject to obtaining

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the Required Raptor Stockholder Vote and the filing of and acceptance of the Certificate of Merger by the Secretary of State of the State of Delaware. The execution and delivery of this Agreement by Raptor and the consummation by Raptor of the Contemplated Transactions have been duly and validly authorized by all necessary corporate action and no other corporate proceedings on the part of Raptor are necessary to authorize this Agreement or to consummate the Contemplated Transactions (other than, with respect to the Merger, the adoption of this Agreement by the holders of a majority of the then outstanding shares of Raptor Common Stock (the ***Required Raptor Stockholder Vote***) and the filing of appropriate merger documents as required by the DGCL). The board of directors of Raptor has unanimously approved this Agreement, declared it to be advisable and subject to Section 4.8(c) resolved to recommend to the stockholders of Raptor that they vote in favor of the adoption of this Agreement in accordance with the DGCL. This Agreement has been duly and validly executed and delivered by Raptor and constitutes the legal, valid and binding obligation of Raptor, enforceable against Raptor in accordance with its terms, subject to: (i) laws of general application relating to bankruptcy, insolvency and the relief of debtors; and (ii) rules of law governing specific performance, injunctive relief and other equitable remedies.

(b) Except as set forth in Part 3.2 of the Raptor Disclosure Schedule and subject to obtaining the Required Raptor Stockholder Vote and the filing of the Certificate of Merger required by the DGCL, neither the execution and delivery of this Agreement nor the consummation of any of the Contemplated Transactions do or will, directly or indirectly (with or without notice or lapse of time or both) (i) contravene, conflict with, or result in a violation of (A) any provision of the Organizational Documents of Raptor or any of its Subsidiaries, or (B) any resolution adopted by the board of directors or the stockholders of Raptor or any of its Subsidiaries; (ii) contravene, conflict with, or result in a violation of, or give any Governmental Body or other Person the right to challenge any of the Contemplated Transactions or to exercise any remedy or obtain any relief under, any Legal Requirement or any Order to which Raptor or any of its Subsidiaries, or any of the assets owned or used by Raptor or any of its Subsidiaries, may be subject; (iii) contravene, conflict with, or result in a violation of any of the terms or requirements of, or give any Governmental Body the right to revoke, withdraw, suspend, cancel, terminate, or modify, any Governmental Authorization that is held by Raptor or any of its Subsidiaries, or that otherwise relates to the business of, or any of the assets owned or used by, Raptor or any of its Subsidiaries; (iv) cause Raptor or any of its Subsidiaries to become subject to, or to become liable for the payment of, any Tax; (v) cause any of the assets owned by Raptor or any of its Subsidiaries to be reassessed or revalued by any Taxing Authority or other Governmental Body; (vi) contravene, conflict with, or result in a violation or breach of any provision of, or give any Person the right to declare a default or exercise any remedy under, or to accelerate the maturity or performance of, or to cancel, terminate, or modify, or create or give rise to any rights to or in any third Person to any payment of royalties or license fees, any rights to data or return of data or records, or to a right to terminate or amend any Contract to which Raptor or any of its Subsidiaries is party or by which Raptor or any of its Subsidiaries or any of their respective assets are bound, including, without limitation, any license agreement, distribution agreement, development agreement, clinical trial agreement or other Contract affecting the rights of Raptor or any of its Subsidiaries or its respective Affiliates or any of any Raptor's or any of its Subsidiaries products, whether to use, manufacture, develop, distribute, or market any of such products currently in clinical trial, development or otherwise; (vii) require a Consent from any Person, including, without limitation, any licensor of any product being developed by Raptor or any of its Subsidiaries or any of its respective Affiliates, or which is the subject of any clinical trial or other investigational or developmental or clinical trial program by Raptor or any of its Subsidiaries or any of its respective Affiliates; or (viii) result in the imposition or creation of any Encumbrance upon or with respect to any of the assets owned or used by Raptor or any of its Subsidiaries, except, in the case of clauses (ii), (iii), (iv), (v), (vi), (vii) and (viii), for any such conflicts, violations, breaches, defaults or other occurrences that would not prevent or delay consummation of the Merger in any material respect, or otherwise prevent Raptor from performing its obligations under this Agreement in any material respect, and could not reasonably be expected to, individually or in the aggregate, result in a Raptor Material Adverse Effect.

(c) The execution and delivery of this Agreement by Raptor does not, and the performance of this Agreement and the consummation of the Contemplated Transactions by Raptor will not, require any

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Consent of, or filing with or notification to, any Governmental Body, except (i) for (A) applicable requirements, if any, of the Exchange Act, the Securities Act and Blue Sky Laws, (B) the filing of appropriate merger documents as required by the DGCL and (C) applicable requirements of FINRA and (ii) where failure to obtain such Consents, or to make such filings or notifications, would not prevent or delay consummation of the Merger in any material respect, or otherwise prevent Raptor from performing its obligations under this Agreement in any material respect, and could not reasonably be expected to, individually or in the aggregate, result in a Raptor Material Adverse Effect.

3.3 Capitalization.

(a) The authorized capital stock of Raptor consists of 100,000,000 shares of Raptor Common Stock and 10,000,000 shares of Raptor Preferred Stock. As of the date hereof, (i) 69,145,047 shares of Raptor Common Stock are issued and outstanding, all of which are duly authorized, validly issued, fully paid and nonassessable, (ii) 4,243,227 shares of Raptor Common Stock are reserved for issuance upon the exercise of outstanding stock options granted pursuant to Raptor's Stock Option Plan (*Raptor Stock Options*), (iii) 4,543,276 shares of Raptor Common Stock are reserved for issuance upon the exercise of outstanding Warrants of Raptor (the *Raptor Warrants*), (iv) zero shares of Raptor Common Stock are held in the treasury of Raptor, (vii) 1,742,273 shares of Raptor Common Stock are reserved for issuance pursuant to Raptor Stock Options not yet granted, and (viii) 1,000,000 shares of Raptor Preferred Stock (designated Series A Junior Participating Preferred Stock, par value \$0.001 per share) are reserved for issuance upon exercise of the Rights issued pursuant to the Stockholder Rights Agreement dated December 5, 2008 between Raptor and Nevada Agency & Trust Company, as Rights Agent (the *Raptor Rights Agreement*). No shares of Raptor Preferred Stock are outstanding. There are not any bonds, debentures, notes or other indebtedness or, except as described in the immediately preceding sentence, securities of Raptor having the right to vote (or convertible into, or exchangeable for, securities having the right to vote) on any matters on which stockholders of Raptor may vote. Except as set forth in the second sentence of this Section 3.3, as of the date hereof, no shares of capital stock or other voting securities of Raptor are issued, reserved for issuance or outstanding.

(b) Except as set forth in this Section 3.3 or in Part 3.3 of the Raptor Disclosure Schedule, there are no Options relating to the issued or unissued capital stock of Raptor or any of its Subsidiaries, or obligating Raptor or any of its Subsidiaries to issue, grant or sell any shares of capital stock of, or other equity interests in, or securities convertible into equity interests in, Raptor or any of its Subsidiaries. None of the outstanding equity securities or other securities of Raptor or any of its Subsidiaries was issued in violation of the Securities Act or any other Legal Requirement. Since January 1, 2009, Raptor has not issued any shares of its capital stock or Options in respect thereof, except upon the conversion of the securities or the exercise or settlement, as applicable, of the Raptor Stock Options and the Raptor Warrants.

(c) All shares of Raptor Common Stock subject to issuance on or before the Closing as described above will, upon issuance on the terms and conditions specified in the instruments pursuant to which they are issuable, be duly authorized, validly issued, fully paid and nonassessable. None of Raptor or any of its Subsidiaries has any Contract or other obligation to repurchase, redeem or otherwise acquire any shares of Raptor Common Stock or any capital stock of any of Raptor's Subsidiaries, or make any investment (in the form of a loan, capital contribution or otherwise) in any of Raptor's Subsidiaries or any other Person. Each outstanding share of capital stock of each of Raptor's Subsidiaries is duly authorized, validly issued, fully paid and nonassessable and each such share owned by any of the Raptor Corporations is free and clear of all Encumbrances. None of the outstanding equity securities or other securities of any of the Raptor Corporations was issued in violation of the Securities Act or any other Legal Requirement. None of the Raptor Corporations owns, or has any Contract or other obligation to acquire, any equity securities or other securities of any Person (other than Subsidiaries of Raptor) or any direct or indirect equity or ownership interest in any other business. None of the Raptor Corporations is or has ever been a general partner of any general or limited partnership.

Table of Contents**3.4 SEC Reports.**

(a) Except as set forth on Part 3.4-1 of the Raptor Disclosure Schedule, Raptor has on a timely basis filed all forms, reports and documents required to be filed by it with the SEC since August 31, 2007 (such documents, as supplemented or amended since the time of filing, the **Raptor SEC Reports**). The Raptor SEC Reports (i) were or will be prepared in accordance with the requirements of the Securities Act and the Exchange Act, as the case may be, and, to the extent then applicable, SOX, including in each case, the rules and regulations thereunder and (ii) except to the extent that information contained in any Raptor SEC Reports has been revised, modified or superseded (prior to the date of this Agreement) by a later filed Raptor SEC Report, did not at the time they were filed with the SEC, or will not at the time they are filed with the SEC, contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary in order to make the statements made therein, in the light of the circumstances under which they were made, not misleading. No Subsidiary of Raptor is or has been required to file any form, report, registration statement or other document with the SEC. Raptor and its Subsidiaries maintain disclosure controls and procedures required by Rule 13a-15 or 15d-15 under the Exchange Act; and such controls and procedures are designed to ensure that all material information concerning Raptor and its Subsidiaries is made known on a timely basis to the individuals responsible for the preparation of Raptor's filings with the SEC and other public disclosure documents. Except as set forth on Part 3.4-2 of the Raptor Disclosure Schedule, to Raptor's Knowledge, each director and executive officer of Raptor has filed with the SEC on a timely basis all statements required by Section 16(a) of the Exchange Act and the rules and regulations thereunder since August 31, 2007. As used in this Section 3.4, the term *file* shall be broadly construed to include any manner in which a document or information is furnished, supplied or otherwise made available to the SEC. With respect to Raptor's Annual Reports on Form 10-K for each fiscal year of Raptor beginning on or after August 31, 2007 and Raptor's Quarterly Reports on Form 10-Q for each of the first three fiscal quarters in each of such fiscal years of Raptor, all certifications and statements with respect thereto and required by Rules 13a-14 and 15d-14 under the Exchange Act and Sections 302 and 906 of SOX, and the rules and regulations of the SEC promulgated thereunder, complied with such rules and regulations and the statements contained in such certifications statements were true and correct as of the date of the filing thereof.

(b) Since August 31, 2007, neither Raptor nor any of its Subsidiaries or, to Raptor's Knowledge, any Representative of Raptor or any of its Subsidiaries has received or has otherwise had or obtained knowledge of any complaint, allegation, assertion or claim, whether written or oral, regarding the accounting or auditing practices, procedures, methodologies or methods of Raptor or any of its Subsidiaries or their internal control over financial reporting, including any complaint, allegation, assertion or claim that Raptor or any of its Subsidiaries has engaged in questionable accounting or auditing practices.

(c) Raptor and its Subsidiaries have implemented and maintain a system of internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) sufficient to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with GAAP, including, without limitation, that (i) transactions are executed in accordance with management's general or specific authorizations, (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain asset accountability, (iii) access to assets is permitted only in accordance with management's general or specific authorization, and (iv) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences. Except as set forth in Part 3.4(c) of the Raptor Disclosure Schedule, since August 31, 2007, (A) there have not been any changes in Raptor's nor any of its Subsidiaries' internal control over financial reporting that have materially affected, or are reasonably likely to materially affect, Raptor's or any of its Subsidiaries' internal control over financial reporting; (B) all significant deficiencies and material weaknesses in the design or operation of Raptor's and its Subsidiaries' internal control over financial reporting which are reasonably likely to adversely affect Raptor's and its Subsidiaries' ability to record, process, summarize and report financial information have been disclosed to Raptor's outside auditors and

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the audit committee of Raptor's board of directors, and (C) there has not been any fraud, whether or not material, that involves management or other employees who have a significant role in Raptor's or any of its Subsidiaries' internal control over financial reporting. Part 3.4(c) of the Raptor Disclosure Schedule lists, and Raptor has made available to TPT copies of, all reports and other documents concerning internal control filed with the SEC or delivered to Raptor by its auditors since August 31, 2007.

3.5 Financial Statements.

(a) The financial statements and notes contained or incorporated by reference in the Raptor SEC Reports (i) complied as to form in all material respects with the published rules and regulations of the SEC (including Regulation S-X) as of the date of the filing of such reports; (ii) were prepared in accordance with GAAP (except as may be indicated in the notes to such financial statements or, in the case of unaudited financial statements, as permitted by Form 10-Q (or Form 10-QSB) of the SEC, and except that the unaudited financial statements may not contain footnotes to the extent permitted by Regulation S-X and are subject to normal and recurring year-end adjustments that will not, individually or in the aggregate, be material in amount), and (iii) fairly present in all material respects the consolidated financial position of Raptor and its Subsidiaries as of the respective dates thereof and the consolidated results of operations, changes in stockholders' equity and cash flows of Raptor and its Subsidiaries as at the respective dates of and for the periods referred to in such financial statements. The financial statements referred to in this Section 3.5 reflect the consistent application of such accounting principles throughout the periods involved, except as disclosed in the notes to such financial statements. No financial statements of any Person other than Raptor and its Subsidiaries are required by GAAP to be included in the consolidated financial statements of Raptor.

(b) Part 3.5(b) of the Raptor Disclosure Schedule lists, and Raptor has delivered to TPT copies of, the documents creating or governing, all of Raptor's Off-Balance Sheet Arrangements.

(c) Part 3.5(c) of the Raptor Disclosure Schedule contains a description of all non-audit services performed by Raptor's auditors for the Raptor Corporations since the beginning of the immediately preceding fiscal year of Raptor and the fees paid for such services. All such non-audit services have been approved as required by Section 202 of SOX.

3.6 Proprietary Rights.

(a) Registered IP. Part 3.6(a) of the Raptor Disclosure Schedule contains a complete and accurate list of all Registered IP owned or purported to be owned by or filed in the name of any Raptor Corporation, which list identifies (i) the jurisdiction in which each item of Registered IP has been registered or filed, and (ii) any item of Registered IP that is jointly owned with any other Person.

(b) Third Party IP and Inbound Licenses. Part 3.6(b) of the Raptor Disclosure Schedule contains a complete and accurate list of all Intellectual Property Rights or Intellectual Property licensed to any Raptor Corporation (other than non-customized, executable code, internal use software licenses for software that is not incorporated into, or used directly in the development, manufacturing, or distribution of, any Raptor Corporation's products or services and that is generally available on standard terms for less than \$10,000), and the corresponding Contracts in which such Intellectual Property Rights or Intellectual Property is licensed to any Raptor Corporation (all of which are deemed to be Raptor Material Contracts for purposes of Section 3.12).

(c) Outbound Licenses. Part 3.6(c) of the Raptor Disclosure Schedule contains a complete and accurate list of all Contracts currently in effect in which any Person has been granted any license under, or otherwise transferred or conveyed any right or interest in, any Raptor IP. No Raptor Corporation is bound by, and no Raptor IP is subject to, any Contract containing any covenant or other provision that in any way limits or restricts the ability of any Raptor Corporation to use, exploit, assert, or enforce the Raptor IP anywhere in the world which limitations or restrictions would reasonably be expected to have a Raptor Material Adverse Effect.

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(d) **Demand Letters**. Part 3.6(d) of the Raptor Disclosure Schedule contains a complete and accurate list (and Raptor has provided true, complete and accurate copies to TPT) of all letters and other written or electronic communications or correspondence since August 31, 2007 between any Raptor Corporation or any of their respective Representatives and any other Person regarding any actual, alleged, possible, potential, or suspected infringement or misappropriation of Raptor IP, along with a brief description of the current status of each such matter.

(e) **Ownership Free and Clear**. The Raptor Corporations exclusively own all right, title, and interest to and in the Raptor IP (other than Intellectual Property Rights exclusively licensed to any Raptor Corporation, as identified in Part 3.6(b) of the Raptor Disclosure Schedule) free and clear of any Encumbrances (other than non-exclusive licenses granted pursuant to the license agreements listed in Part 3.6(c) of the Raptor Disclosure Schedule).

(f) **Valid and Enforceable**. To Raptor's Knowledge all Raptor IP is valid, subsisting, and enforceable. Without limiting the generality of the foregoing, no Legal Proceeding (including any interference, opposition, reissue, or reexamination proceeding) is pending or, to Raptor's Knowledge, threatened, and since August 31, 2007 there has been no Legal Proceeding, in which the scope, validity, or enforceability of any Raptor IP is being, has been, or could reasonably be expected to be contested or challenged.

(g) **Employees and Contractors**. All employees and contractors of any Raptor Corporation who were involved in the creation or development of the Raptor IP have signed agreements containing intellectual property assignments and confidentiality provisions. No past or present shareholder, officer, director, or employee of any Raptor Corporation has any claim, right, or interest to or in any Raptor IP.

(h) **Infringement of Raptor IP by Third Parties**. To Raptor's Knowledge, no Person has infringed, misappropriated, or otherwise violated, and no Person is currently infringing, misappropriating, or otherwise violating, any Raptor IP.

(i) **Effects of This Transaction**. Neither the execution or delivery of this Agreement nor the performance of this Agreement and the consummation of the Contemplated Transactions will, with or without notice or lapse of time, result in, or give any other Person the right or option to cause or declare, (i) a loss of, or Encumbrance or restriction on, any Raptor IP or any license to Intellectual Property or Intellectual Property Rights held by any Raptor Corporation; (ii) a breach of any license agreement listed or required to be listed in Part 3.6(b) of the Raptor Disclosure Schedule; (iii) the release or delivery of any Raptor IP to any other Person; or (iv) the grant, assignment, or transfer to any other Person of any license or other right or interest under, to, or in any of the Raptor IP.

(j) **No Infringement of Third Party IP Rights**. To Raptor's Knowledge no Raptor Corporation has ever infringed, misappropriated, or otherwise violated the Intellectual Property Rights of any other Person, which infringement or misappropriation would reasonably be expected to have a Raptor Material Adverse Effect. Without limiting the generality of the foregoing, to Raptor's Knowledge no product, information, or service ever manufactured, produced, distributed, published, used, provided, or sold by or on behalf of any Raptor Corporation, and no Intellectual Property ever owned, used, or developed by any Raptor Corporation, has infringed, misappropriated, or otherwise violated the Intellectual Property Rights of any other Person, which infringement or misappropriation would reasonably be expected to have a Raptor Material Adverse Effect.

(k) **Pending, Threatened, or Possible IP Infringement Claims**. There are no pending or to Raptor's Knowledge threatened infringement, misappropriation, or similar claims or Legal Proceedings against any Raptor Corporation or against any other Person who would be entitled to indemnification by any Raptor Corporation for such claim or Legal Proceeding. No Raptor Corporation has ever received any notice or other communication (in writing or otherwise) of any actual, alleged, possible, potential, or suspected infringement or misappropriation of any other Person's Intellectual Property Rights by any Raptor Corporation or by any product or service developed, manufactured, distributed, provided, or sold by or on behalf of any Raptor Corporation.

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(l) Other Infringement Liability. No Raptor Corporation is bound by any Contract, or any commitment or promise, to indemnify any other Person for intellectual property infringement, misappropriation, or similar claims (other than the express infringement indemnities included in standard form sales or license agreements entered into by any Raptor Corporation in the ordinary course of business). No Raptor Corporation has assumed from any other Person any existing or potential liability for infringement, misappropriation, or violation of Intellectual Property Rights.

(m) Infringement Claims Relating to Third Party IP Licensed to Raptor. To Raptor's Knowledge there are no pending or threatened claims or proceedings involving Intellectual Property or Intellectual Property Rights licensed to any Raptor Corporation that could reasonably be expected to adversely affect the use or exploitation thereof by any Raptor Corporation or the manufacturing, distribution, or sale of any products or services currently being developed, offered, manufactured, distributed, or sold by any Raptor Corporation.

(n) Sufficiency. To Raptor's Knowledge, each Raptor Corporation owns or otherwise has all Intellectual Property Rights needed to conduct their respective businesses as currently conducted or planned to be conducted.

3.7 No Undisclosed Liabilities. Except as set forth in Part 3.7 of the Raptor Disclosure Schedule, the Raptor Corporations have no liabilities or obligations of any nature (whether absolute, accrued, contingent, determined, determinable, choate, inchoate or otherwise), except for (a) liabilities or obligations reflected or reserved against in the Raptor Balance Sheet, or (b) current liabilities incurred in the ordinary course of business, consistent with past practice, since the date of the Raptor Balance Sheet that, individually or in the aggregate, would not have a Raptor Material Adverse Effect.

3.8 Taxes.

(a) Timely Filing of Tax Returns. The Raptor Corporations have filed or caused to be filed all Tax Returns that are or were required to be filed by or with respect to any of them, either separately or as a member of a group of corporations, pursuant to applicable Legal Requirements. All Tax Returns filed by (or that include on a consolidated basis) any of the Raptor Corporations were (and, as to Tax Returns not filed as of the date hereof, will be) in all respects true, complete and correct and filed on a timely basis.

(b) Payment of Taxes. The Raptor Corporations have, within the time and in the manner prescribed by law, paid (and until Closing will pay within the time and in the manner prescribed by law) all Taxes that are due and payable.

(c) Withholding Taxes. Each of the Raptor Corporations have complied (and until the Closing will comply) with all applicable Legal Requirements relating to the payment and withholding of Taxes (including, but not limited to, withholding and reporting requirements under the Code or Sections 1441 through 1464, 3401 through 3406, 6041 and 6049 of the Code, and similar provisions under any other laws) and have, within the times and in the manner prescribed by law, withheld from employee wages and paid over to proper Governmental Bodies all amounts required.

(d) Qualification as a Reorganization. None of the Raptor Corporations has taken any action, nor to Raptor's Knowledge is there any fact or circumstance, that could reasonably be expected to prevent the Merger from qualifying as a reorganization within the meaning of Section 368(a) of the Code.

(e) Section 355 Representation. None of the Raptor Corporations has constituted either a distributing corporation or a controlled corporation in a distribution of stock qualifying for tax free treatment under Section 355 of the Code (i) in the two years prior to the date of this Agreement or (ii) in a distribution which could otherwise constitute part of a plan or series of related transactions (within the meaning of Section 355(e) of the Code) in connection with the Merger.

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3.9 Compliance with Legal Requirements: Governmental Authorizations.

(a) The Raptor Corporations are, and at all times since August 31, 2007 have been, in material compliance with each Legal Requirement that is or was applicable to any of them or to the conduct or operation of their business or the ownership or use of any of their assets, including, without limitation, any regulation issued under any such Legal Requirement; no event has occurred or circumstance exists that (with or without notice or lapse of time or both) (i) may constitute or result in a material violation by any of the Raptor Corporations of, or a substantial failure on the part of any of the Raptor Corporations to comply with, any Legal Requirement, or (ii) may give rise to any obligation on the part of any of the Raptor Corporations to undertake, or to bear all or any portion of the cost of, any substantial remedial action of any nature; and none of the Raptor Corporations has received, at any time since August 31, 2007, any notice or other communication (whether oral or written) from any Governmental Body or any other Person regarding (x) any actual, alleged, possible, or potential violation of, or failure to comply with, any Legal Requirement, (y) any actual, alleged, possible, or potential obligation on the part of any of the Raptor Corporations to undertake, or to bear all or any portion of the cost of, any remedial action of any nature, or (z) any investigation with respect to any such Legal Requirement, including Legal Requirements of the FDA, the EMEA and other comparable Governmental Bodies.

(b) The Raptor Corporations have all material Governmental Authorizations required to conduct their respective businesses as now being conducted. Such Governmental Authorizations are valid and in full force and effect, and the Raptor Corporations and Persons acting in concert with and on behalf of the Raptor Corporations are in compliance in all material respects with all such Governmental Authorizations. Raptor has provided to TPT a true, accurate and complete copy of all such material Governmental Authorizations from the FDA and the EMEA.

(c) The Raptor Corporations and, to Raptor's Knowledge, Persons acting in concert with and on behalf of any Raptor Corporation:

(i) have not used in any capacity the services of any individual or Entity debarred, excluded, or disqualified under 21 U.S.C. Section 335a, 42 U.S.C. Section 1320a-7, 21 C.F.R. Section 312.70, or any similar laws, rules or regulations; and

(ii) have not been convicted of any crime or engaged in any conduct that has resulted, or would reasonably be expected to result, in debarment, exclusion, or disqualification under 21 U.S.C. Section 335a, 42 U.S.C. Section 1320a-7, 21 C.F.R. Section 312.70, or any similar laws, rules or regulations.

(d) None of the Raptor Corporations, and (to the Knowledge of Raptor) no Representative of any Raptor Corporation with respect to any matter relating to any of the Raptor Corporations, has: (i) used any funds for unlawful contributions, gifts, entertainment or other unlawful expenses relating to political activity; (ii) made any unlawful payment to foreign or domestic government officials or employees or to foreign or domestic political parties or campaigns or violated any provision of the Foreign Corrupt Practices Act of 1977, as amended; or (iii) made any other unlawful payment.

(e) None of the Raptor Corporations, or, to Raptor's Knowledge, Persons acting in concert with or, to Raptor's Knowledge, on behalf of any Raptor Corporation, or any officers, employees or agents of the same has with respect to any product that is manufactured, tested, distributed, held or marketed by or on behalf of any of any Raptor Corporation made an untrue statement of a material fact or fraudulent statement to the FDA, the EMEA or any other Governmental Body, failed to disclose a material fact required to be disclosed to the FDA, the EMEA or any other Governmental Body, or committed an act, made a statement, or failed to make a statement that, at the time such disclosure was made, would reasonably be expected to provide a basis for the FDA to invoke its policy respecting Fraud, Untrue Statements of Material Facts, Bribery, and Illegal Gratuities set forth in 56 Fed. Reg. 46191 (September 10, 1991) or for the EMEA or any other Governmental Body to invoke any similar policy.

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3.10 Legal Proceedings.

(a) Except as set forth in Part 3.10 of the Raptor Disclosure Schedule, there is no pending Legal Proceeding (i) that has been commenced by or against any of the Raptor Corporations or that otherwise relates to or may affect the business of, or any of the assets owned or used by, any of the Raptor Corporations, except for such Legal Proceedings as could not reasonably be expected to, individually or in the aggregate, result in a Raptor Material Adverse Effect, (ii) that challenges, or that may have the effect of preventing, delaying, making illegal, or otherwise interfering with, any of the Contemplated Transactions, or (iii) against any director or officer of any of the Raptor Corporations pursuant to Section 8A or 20(b) of the Securities Act or Section 21(d) or 21C of the Exchange Act.

(b) To Raptor's Knowledge, (i) no Legal Proceeding that if pending would be required to be disclosed under the preceding paragraph has been threatened, and (ii) no event has occurred or circumstance exists that may give rise to or serve as a basis for the commencement of any such Legal Proceeding.

3.11 Absence of Certain Changes and Events. Except as set forth in Part 3.11 of the Raptor Disclosure Schedule or as otherwise expressly contemplated by this Agreement, since the date of the Raptor Balance Sheet, the Raptor Corporations have conducted their businesses only in the ordinary course of business, consistent with past practices and there has not been any Raptor Material Adverse Effect, and no event has occurred or circumstance exists that may result in a Raptor Material Adverse Effect, any action or event of the type described in Section 4.3 or:

(a) any material loss, damage or destruction to, or any material interruption in the use of, any of the assets of any of the Raptor Corporations (whether or not covered by insurance) that has had or could reasonably be expected to have a Raptor Material Adverse Effect;

(b) except in the ordinary course of business and consistent with past practice, any action by any Raptor Corporation to (i) enter into or suffer any of the assets owned or used by it to become bound by any Raptor Material Contract, or (ii) amend or terminate, or waive any material right or remedy under any Raptor Material Contract; or

(c) any agreement or commitment to take any of the actions referred to in clause (b) above.

3.12 Contracts; No Defaults.

(a) Each Raptor Material Contract is valid and in full force and effect, and is enforceable in accordance with its terms, subject to: (i) laws of general application relating to bankruptcy, insolvency and the relief of debtors; and (ii) rules of law governing specific performance, injunctive relief and other equitable remedies.

(b) Except as set forth in Part 3.12(b) of the Raptor Disclosure Schedule: (i) none of the Raptor Corporations has violated or breached, or committed any default under, any Raptor Material Contract, except for violations, breaches and defaults that have not had and would not reasonably be expected to have a Raptor Material Adverse Effect; and, to the Raptor's Knowledge, no other Person has violated or breached, or committed any default under, any Raptor Material Contract, except for violations, breaches and defaults that have not had and would not reasonably be expected to have a Raptor Material Adverse Effect; (ii) to the Raptor's Knowledge, no event has occurred, and no circumstance or condition exists, that (with or without notice or lapse of time) will or would reasonably be expected to, (A) result in a violation or breach of any of the provisions of any Raptor Material Contract, (B) give any Person the right to declare a default or exercise any remedy under any Raptor Material Contract, (C) give any Person the right to accelerate the maturity or performance of any Raptor Material Contract, or (D) give any Person the right to cancel, terminate or modify any Raptor Material Contract, except in each such case for defaults, acceleration rights, termination rights and other rights that have not had and would not reasonably be expected to have a Raptor Material Adverse Effect; and (iii) since August 31, 2007, none of the Raptor Corporations has received any notice or other communication regarding any actual or possible violation or breach of, or default under, any Raptor Material Contract, except in each such case for defaults, acceleration rights, termination rights and other rights that have not had and would not reasonably be expected to have a Raptor Material Adverse Effect.

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3.13 Raptor Action.

(a) The board of directors of Raptor (at a meeting duly called and held in accordance with the Raptor's articles of incorporation and bylaws) has unanimously (i) determined that this Agreement and the Merger are advisable, fair, and in the best interests of Raptor and its stockholders, (ii) duly and validly approved, adopted and declared advisable the Merger and this Agreement, (iii) recommended the approval by the stockholders of Raptor of the Merger and this Agreement and, subject to the provisions of Section 4.8(c) after the date hereof, none of the aforementioned actions of the board of directors of Raptor have been amended, modified or rescinded.

(b) The Required Raptor Stockholder Vote is the only vote of the holders of any class or series of Raptor's capital stock necessary to approve the Merger and this Agreement.

3.14 Rights Plan. Raptor has amended the Raptor Rights Agreement and taken all other action necessary or appropriate so that the execution and delivery of this Agreement by the Parties hereto, and the consummation by TPT of the Merger and the Contemplated Transactions, do not and will not cause TPT or any of its stockholders, Subsidiaries or Affiliates to be within the definition of "Acquiring Person" under the Raptor Rights Agreement.

3.15 Disclosure. None of the information supplied or to be supplied by or on behalf of Raptor for inclusion or incorporation by reference in the Form S-4 Registration Statement will, at the time the Form S-4 Registration Statement is filed with the SEC or at the time it becomes effective under the Securities Act, contain any untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary in order to make the statements therein, in the light of the circumstances under which they are made, not misleading. None of the information supplied or to be supplied by or on behalf of Raptor for inclusion or incorporation by reference in the Prospectus/Joint Proxy Statement will, at the time the Prospectus/Joint Proxy Statement is mailed to the stockholders of Raptor or at the time of the Raptor Stockholders Meeting, contain any untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary in order to make the statements therein, in the light of the circumstances under which they are made, not misleading. The Prospectus/Joint Proxy Statement will comply as to form in all material respects with the provisions of the Exchange Act and the rules and regulations promulgated by the SEC thereunder.

SECTION 4

CERTAIN PRE-CLOSING COVENANTS

4.1 Access and Investigation. During the period from the date of this Agreement through the Effective Time (the "*Pre-Closing Period*"), subject to (a) applicable Antitrust Laws and regulations relating to the exchange of information, (b) applicable Legal Requirements protecting the privacy of employees and personnel files, (c) applicable undertakings given by each Party to others requiring confidential treatment of documents, and (d) appropriate limitations on the disclosure of other information to maintain attorney-client privilege, each Party shall, and shall cause its Representatives, (i) to provide the other Party and the other Party's Representatives with full access to the such Party's Representatives, personnel and assets and to all existing books, records, Tax Returns, work papers and other documents, and with such additional financial, operating and other data and information regarding such Party and its Subsidiaries and (ii) cause its officers to confer regularly with the other Party concerning the status of its business, in each case as the Party may reasonably request. Without limiting the generality of the foregoing, during the Pre-Closing Period, each Party shall promptly provide the other Party with, or afford the other Party the right to make, copies of (A) all material operating and financial reports prepared by such Party and its Subsidiaries for such Party's senior management, including copies of the unaudited monthly consolidated financial statements; (B) any written materials or communications sent by or on behalf of such Party to its stockholders; (C) any notice, report or other document filed with or sent to any Governmental Body in connection with the Merger or any of the other Contemplated Transactions; and (D) any material notice of alleged violations or legal non-compliance received by such Party or any of its Subsidiaries from any Governmental Body.

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4.2 Operation of TPT's Business.

(a) During the Pre-Closing Period (except with the prior written Consent of Raptor) TPT shall:

(i) ensure that each of the TPT Corporations complies with all applicable Legal Requirements and all TPT Material Contracts (which for the purpose of this Section 4.2 shall include any Contract that would be a TPT Material Contract if existing on the date of this Agreement); and

(ii) keep in full force all insurance policies referred to in Section 2.17 or listed on Part 2.17 of the TPT Disclosure Schedule.

(b) During the Pre-Closing Period (except with the prior written Consent of Raptor or as otherwise expressly contemplated by this Agreement or as part of the Contemplated Transactions), TPT shall not, and shall not permit any of the other TPT Corporations to:

(i)(A) declare, set aside or pay any dividends on, or make any other distributions (whether in cash, stock or property) in respect of, any of its capital stock or other equity or voting interests, except for dividends by a direct or indirect wholly owned Subsidiary of TPT to TPT, (B) split, combine or reclassify any of its capital stock or other equity or voting interests, or issue or authorize the issuance of any other securities in respect of, in lieu of or in substitution for shares of its capital stock or other equity or voting interests, (C) purchase, redeem or otherwise acquire any shares of capital stock or any other securities of any TPT Corporation or any options, warrants, calls or rights to acquire any such shares or other securities (including any TPT Stock Options, TPT Warrants or TPT Restricted Stock Units except pursuant to forfeiture conditions of such restricted stock) or (D) take any action that would result in any change of any term (including any conversion price thereof) of any debt security of any TPT Corporation;

(ii) issue, deliver, sell, pledge or otherwise encumber any shares of its capital stock, any other equity or voting interests or any securities convertible into, or exchangeable for, or any options, warrants, calls or rights to acquire or receive, any such shares, interests or securities or any stock appreciation rights, phantom stock awards or other rights that are linked in any way to the price of the TPT Common Stock or the value of TPT or any part thereof, other than the issuance of shares of TPT Common Stock upon the exercise of TPT Stock Options, TPT Warrants or the settlement of TPT Restricted Stock Units in accordance with their present terms;

(iii) amend or propose to amend any of its Organizational Documents or effect or become a party to any merger, consolidation, share exchange, business combination, recapitalization or similar transaction;

(iv) acquire by merger or consolidation, or by purchasing all or a substantial portion of the assets of, or by purchasing all or a substantial equity or voting interest in, or by any other manner, any business or any corporation, partnership, limited liability company, joint venture, association or other Entity or division thereof;

(v) acquire any material assets or a license therefor other than in the ordinary course of business consistent with past practices or incur any capital expenditures, or any obligations or liabilities in connection therewith, except pursuant to existing Contracts or that, in the aggregate, would not exceed \$25,000 during any fiscal quarter;

(vi) enter into any lease or sublease of real property (whether as a lessor, sublessor, lessee or sublessee);

(vii) sell, grant a license in, mortgage or otherwise encumber or subject to any Encumbrance or otherwise dispose of any of its material properties or assets;

(viii) repurchase, prepay or incur any indebtedness or guarantee any indebtedness of another person or issue or sell any debt securities or options, warrants, calls or other rights to acquire any debt securities of any TPT Corporation, guarantee any debt securities of another person, enter into any

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keep well or other agreement to maintain any financial statement condition of another Person or enter into any arrangement having the economic effect of any of the foregoing;

(ix) make any loans, advances or capital contributions to, or investments in, any other Person, other than TPT or any direct or indirect wholly owned Subsidiary of TPT and except for customary travel advances to employees;

(x)(A) pay, discharge, settle or satisfy any material claims (including claims of stockholders and any stockholder litigation relating to this Agreement, the Merger or any other Contemplated Transaction or otherwise), liabilities or obligations (whether absolute, accrued, asserted or unasserted, contingent or otherwise, provided that this shall not include the payment, discharge, settlement or satisfaction as required by their terms as in effect on the date of this Agreement of claims, liabilities or obligations reflected or reserved against in the most recent audited financial statements (or the notes thereto) of TPT included in the TPT SEC Reports (for amounts not in excess of such reserves) or incurred since the date of such financial statements in the ordinary course of business consistent with past practices; it being understood and agreed that this proviso shall not include any settlement or discharge of any Legal Proceeding, including, without limitation, any of the Lawsuits), (B) waive, release, grant or transfer any right of material value other than in the ordinary course of business consistent with past practices or (C) commence any Legal Proceeding, other than to enforce the provisions of this Agreement;

(xi) enter into any material Contract (A) except in the ordinary course of business consistent with past practices, (B) if consummation of the Contemplated Transactions or compliance by TPT with the provisions of this Agreement will conflict with, or result in any violation or breach of, or default (with or without notice or lapse of time or both) under, or give rise to a right of, or result in, termination, cancellation or acceleration of any obligation or to a loss of a material benefit under, or result in the creation of any Encumbrance in or upon any of the properties or assets of any TPT Corporation or Raptor or any of its Subsidiaries under, or give rise to any increased, additional, accelerated or guaranteed rights or entitlements under, any provision of such Contract; (C) containing any restriction on the ability of any TPT Corporation to assign all or any portion of its rights, interests or obligations thereunder, unless such restriction expressly excludes any assignment to any other TPT Corporation or any Subsidiary of Raptor in connection with or following the consummation of the Merger and the other Contemplated Transactions; or (D) of the type described in Section 2.16(a);

(xii) change or terminate any Contract to which any TPT Corporation is a party, or waive, release or assign any rights or claims thereunder, in each case in a manner materially adverse to the TPT Corporations, taken as a whole;

(xiii) adopt or enter into any collective bargaining agreement or other labor union Contract applicable to the employees of any TPT Corporation;

(xiv) hire any new employee or promote any employee or engage any independent contractor;

(xv) increase in any manner the compensation or benefits of any employee, officer, director or independent contractor of any TPT Corporation;

(xvi) except as required to comply with applicable Legal Requirements or any Contract or Benefit Plan in effect on the date of this Agreement, (A) pay to any employee, officer, director or independent contractor of any TPT Corporation any benefit not provided for under any Contract or Benefit Plan in effect on the date of this Agreement, (B) grant any awards under any Benefit Plan (including the grant of TPT Stock Options, TPT Warrants, TPT Restricted Stock Units, stock appreciation rights, stock based or stock related awards, performance units or restricted stock or the removal of existing restrictions in any Contract or Benefit Plan or awards made thereunder), (C) take any action to fund or in any other way secure the payment of compensation or benefits under any Contract or Benefit Plan, (D) take any action to accelerate the vesting or payment of any compensation or benefit under any Contract or Benefit Plan, (E) adopt, enter into or amend any Benefit Plan or (F) make any material determination under any Benefit Plan;

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(xvii)(A) fail to accrue a reserve in its books and records and financial statements in accordance with past practice for Taxes payable by the TPT Corporations, (B) settle or compromise any Legal Proceeding relating to any material Tax or (C) revoke any material Tax election;

(xviii) except as required by GAAP or applicable Legal Requirements, change its fiscal year, revalue any of its material assets or make any changes in financial or tax accounting methods, principles or practices;

(xix) take any action (or omit to take any action) if such action (or omission) would, or would be reasonably likely to result in (A) any representation and warranty of TPT or any other TPT Corporation set forth in this Agreement that is qualified as to materiality becoming untrue (as so qualified) or (B) any such representation and warranty that is not so qualified becoming untrue in any material respect, provided that those Persons disclosed in Part 4.2(b)(xix) of the TPT Disclosure Schedule shall be permitted to take those actions specifically set forth in Part 4.2(b)(xix) of the TPT Disclosure Schedule.

(xx) take any action, other than abandoning TPT's Special Meeting, with respect to the dissolution, liquidation or winding up of any TPT Corporation; or

(xxi) authorize any of, or commit, resolve or agree to take any of, the foregoing actions.

(c) During the Pre-Closing Period, TPT shall promptly notify Raptor in writing of:

(i) the discovery by TPT of any event, condition, fact or circumstance that occurred or existed on or prior to the date of this Agreement and that caused or constitutes a material inaccuracy in any representation or warranty made by TPT or any other TPT Corporation in this Agreement;

(ii) any event, condition, fact or circumstance that occurs, arises or exists after the date of this Agreement and that would cause or constitute a material inaccuracy in any representation or warranty made by TPT in this Agreement if such representation or warranty had been made as of the time of the occurrence, existence or discovery of such event, condition, fact or circumstance;

(iii) any material breach of any covenant of TPT or any other TPT Corporation;

(iv) any material Legal Proceeding pending against or with respect to any TPT Corporation in respect of any Tax matter;

(v) any event, condition, fact or circumstance that would make the timely satisfaction of any of the conditions set forth in Section 5 or Section 6 impossible or unlikely or that has had or could reasonably be expected to have a TPT Material Adverse Effect; and

(vi)(A) any notice or other communication from any Person alleging that the Consent of such Person is or may be required in connection with the Contemplated Transactions, and (B) any Legal Proceeding or material claim threatened, commenced or asserted against or with respect to any of the TPT Corporations or the Contemplated Transactions and any material development in any Legal Proceeding.

No notification given to Raptor pursuant to this Section 4.2(c) shall limit or otherwise affect any of the representations, warranties, covenants or obligations of TPT contained in this Agreement.

4.3 Operation of Raptor's Business.

(a) During the Pre-Closing Period (except with the prior written Consent of TPT) Raptor shall ensure that each Raptor Corporation (A) conducts its business and operations in the ordinary course of business consistent with past practices, except as contemplated in the proviso of the definition of Acquisition Proposal, and (B) complies with all applicable Legal Requirements and all Raptor Material Contracts (which for the purpose of this Section 4.3 shall include any Contract that would be a Raptor Material Contract if existing on the date of this Agreement).

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(b) During the Pre-Closing Period (except with the prior written Consent of TPT or as otherwise expressly contemplated by this Agreement or as part of the Contemplated Transactions), Raptor shall not, and shall not permit any of the other Raptor Corporations to:

(i) except in connection with the operation of its business as described in Section 4.3(a) and except as contemplated in the proviso of the definition of Acquisition Proposal, take any action (or omit to take any action) if such action (or omission) would, or would be reasonably likely to result in (A) any representation and warranty of Raptor or any other Raptor Corporation set forth in this Agreement that is qualified as to materiality becoming untrue (as so qualified) or (B) any such representation and warranty that is not so qualified becoming untrue in any material respect; or

(ii) authorize any of, or commit, resolve or agree to take any of, the foregoing actions.

(c) During the Pre-Closing Period, Raptor shall promptly notify TPT in writing of:

(i) the discovery by Raptor of any event, condition, fact or circumstance that occurred or existed on or prior to the date of this Agreement and that caused or constitutes a material inaccuracy in any representation or warranty made by Raptor in this Agreement;

(ii) any event, condition, fact or circumstance that occurs, arises or exists after the date of this Agreement and that would cause or constitute a material inaccuracy in any representation or warranty made by Raptor in this Agreement if such representation or warranty had been made as of the time of the occurrence, existence or discovery of such event, condition, fact or circumstance;

(iii) any material breach of any covenant of Raptor or any of its Subsidiaries;

(iv) any material Legal Proceeding pending against or with respect to Raptor or any of its Subsidiaries in respect of any Tax matter;

(v) any event, condition, fact or circumstance that would make the timely satisfaction of any of the conditions set forth in Section 5 or Section 6 impossible or unlikely or that has had or could reasonably be expected to have a Raptor Material Adverse Effect; and

(vi)(A) any notice or other communication from any Person alleging that the Consent of such Person is or may be required in connection with the Contemplated Transactions, and (B) any Legal Proceeding or material claim threatened, commenced or asserted against or with respect to any of the Raptor Corporations or the Contemplated Transactions and any material development in any Legal Proceeding.

No notification given to TPT pursuant to this Section 4.3(c) shall limit or otherwise affect any of the representations, warranties, covenants or obligations of Raptor contained in this Agreement.

4.4 No Control of the TPT Corporations Business. Nothing contained in this Agreement shall give Raptor, directly or indirectly, the right to control or direct the operations of the TPT Corporations prior to the Effective Time.

4.5 No Solicitation.

(a) Neither Party shall directly nor indirectly, and shall not authorize or permit any of its Subsidiaries or any Representative of any of such Party or its Subsidiaries directly or indirectly to, (i) solicit, initiate, encourage, induce or knowingly facilitate the making, submission or announcement of any Acquisition Proposal or take any action that could reasonably be expected to lead to an Acquisition Proposal, (ii) furnish any information regarding such Party or any of its Subsidiaries to any Person in connection with or in response to an Acquisition Proposal or an inquiry or indication of interest that could reasonably be expected to lead to an Acquisition Proposal, (iii) engage in discussions or negotiations with any Person with respect to any Acquisition Proposal, (iv) approve, endorse or recommend any Acquisition Proposal or (v) enter into any letter of intent or similar document or any Contract contemplating or otherwise relating to any Acquisition Transaction; provided, however, that prior to the TPT stockholders having voted their shares of

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TPT Common Stock in favor of the proposals set forth in the Required TPT Stockholder Vote and prior to the Raptor stockholders having voted their shares of Raptor Common Stock in favor of the proposals set forth in the Required Raptor Stockholder Vote, respectively, this Section 4.5(a) shall not prohibit either Party from furnishing nonpublic information regarding such Party or its Subsidiaries to, or entering into discussions or negotiations with, any Person in response to a Superior Proposal or a bona fide, unsolicited written Acquisition Proposal made or received after the date of this Agreement that is reasonably likely to result in a Superior Proposal that is submitted to such Party by such Person (and not withdrawn) if (A) neither such Party nor any Representative of any of such Party or its Subsidiaries shall have violated any of the restrictions set forth in this Section 4.5, (B) the board of directors of such Party concludes in good faith, after having taken into account the advice of its outside legal counsel, that the failure to take such action is reasonably likely to result in a breach of the fiduciary duties of the board of directors under applicable law, (C) at least two Business Days prior to furnishing any such nonpublic information to, or entering into discussions or negotiations with, such Person, such Party gives the other Party written notice of the identity of such Person and of such Party's intention to furnish nonpublic information to, or enter into discussions or negotiations with, such Person, and such Party receives from such Person an executed confidentiality agreement containing customary limitations on the use and disclosure of all nonpublic written and oral information furnished to such Person by or on behalf of such Party and containing standstill provisions no less favorable to such Party than the standstill provisions contained in the Confidentiality Agreement, if applicable, and (D) at least two Business Days prior to furnishing any such nonpublic information to such Person, such Party furnishes such nonpublic information to the other Party (to the extent such nonpublic information has not been previously furnished by such Party to the other Party). Without limiting the generality of the foregoing, each Party acknowledges and agrees that any violation of or the taking of any action inconsistent with any of the restrictions set forth in the preceding sentence by any Representative of such Party or its Subsidiaries, whether or not such Representative is purporting to act on behalf of such Party or any of its Subsidiaries, shall be deemed to constitute a breach of this Section 4.5(a) by such Party.

(b) Each Party shall promptly (and in no event later than 24 hours after receipt of any Acquisition Proposal, any inquiry or indication of interest that could reasonably be expected to lead to an Acquisition Proposal or any request for nonpublic information) advise the other Party orally and in writing of any Acquisition Proposal, any inquiry or indication of interest that could reasonably be expected to lead to an Acquisition Proposal or any request for nonpublic information relating to such Party or any of its Subsidiaries (including the identity of the Person making or submitting such Acquisition Proposal, inquiry, indication of interest or request, and the terms thereof) that is made or submitted by any Person during the Pre-Closing Period. Each Party shall keep the other Party fully informed with respect to the status of any such Acquisition Proposal, inquiry, indication of interest or request and any modification or proposed modification thereto.

(c) Each Party shall immediately cease and cause to be terminated any existing discussions with any Person that relate to any Acquisition Proposal as of the date of this Agreement.

(d) Each Party agrees not to release or permit the release of any Person from, or to waive or permit the waiver of any provision of, any confidentiality, standstill or similar agreement to which such Party or any of its Subsidiaries is a party, and will use its commercially reasonable efforts to enforce or cause to be enforced each such agreement at the request of the other Party. Each Party also will promptly request each Person that has executed, within 12 months prior to the date of this Agreement, a confidentiality agreement in connection with its consideration of a possible Acquisition Transaction or equity investment to return all confidential information heretofore furnished to such Person by or on behalf of such Party or any of its Subsidiaries.

4.6 Registration Statement; Prospectus/Joint Proxy Statement.

(a) As promptly as practicable after the date of this Agreement, Raptor and TPT shall prepare and cause to be filed with the SEC the Prospectus/Joint Proxy Statement and TPT shall prepare and cause to be

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filed with the SEC the Form S-4 Registration Statement, in which the Prospectus/Joint Proxy Statement will be included as a prospectus, with respect to the issuance of TPT Common Stock in the Merger. Each of Raptor and TPT shall furnish all information concerning it and the holders of its capital stock as the other may reasonably request in connection with the preparation of the Form S-4 Registration Statement and Prospectus/Joint Proxy Statement. Each of Raptor and TPT shall use commercially reasonable efforts to cause the Form S-4 Registration Statement and the Prospectus/Joint Proxy Statement to comply with the rules and regulations promulgated by the SEC, to respond promptly to any comments of the SEC or its staff and to have the Form S-4 Registration Statement declared effective under the Securities Act as promptly as practicable after it is filed with the SEC. Each of TPT and Raptor will use commercially reasonable efforts to cause the Prospectus/Joint Proxy Statement to be mailed to its respective stockholders as promptly as practicable after the Form S-4 Registration Statement is declared effective under the Securities Act. All documents that either Raptor or TPT is responsible for filing with the SEC in connection with the Contemplated Transactions will comply as to form and substance in all material respects with the applicable requirements of the Securities Act and the Exchange Act. Each Party shall promptly furnish to the other Party all information concerning such Party and such Party's Subsidiaries and such Party's stockholders that may be required or reasonably requested in connection with any action contemplated by this Section 4.6(a). Each of Raptor and TPT shall also promptly file, use commercially reasonable efforts to cause to become effective as promptly as possible any amendment to the Form S-4 Registration Statement or Prospectus/Joint Proxy Statement that becomes necessary after the date the S-4 Registration Statement is declared effective and, if required, each of TPT and Raptor will promptly cause such amendment to be mailed to its respective stockholders.

(b) If at any time prior to the Effective Time either party becomes aware of any event or circumstance which is required to be set forth in an amendment or supplement to the Form S-4 Registration Statement or Prospectus/Joint Proxy Statement, it shall promptly inform the other party.

(c) Each of Raptor and TPT will advise the other, promptly after it receives notice thereof, of the time when the Form S-4 Registration Statement has become effective or any supplement or amendment thereto has been filed, the issuance of any stop order, or any request by the SEC for amendment of the Prospectus/Joint Proxy Statement or Form S-4 Registration Statement or comments thereon or responses thereto, and shall provide each other with copies of (i) all correspondence between it or any of its Representatives, on the one hand, and the SEC or staff of the SEC, on the other hand, with respect to the Prospectus/Joint Proxy Statement, the Form S-4 Registration Statement or the Merger and (ii) all Orders of the SEC relating to the Form S-4 Registration Statement.

4.7 TPT Stockholders Meeting.

(a) TPT shall take all action necessary under all applicable Legal Requirements to call, give notice of and hold a meeting of the holders of TPT Common Stock to vote on the issuance of TPT Common Stock in the Merger and the filing of the TPT Charter Amendment and the election of the persons identified on Part 4.17 of the TPT Disclosure Schedule to the TPT board of directors immediately after the Effective Time (the ***TPT Stockholders Meeting***), and shall submit such proposal to such holders at the TPT Stockholders Meeting. TPT (in consultation with Raptor) shall set a record date for persons entitled to notice of, and to vote at, the TPT Stockholders Meeting. The TPT Stockholders Meeting shall be held (on a date selected by TPT in consultation with Raptor) as promptly as practicable after the Form S-4 Registration Statement is declared effective under the Securities Act. TPT shall ensure that all proxies solicited in connection with the TPT Stockholders Meeting are solicited in compliance with all applicable Legal Requirements. Without limiting the generality of the foregoing, TPT's obligations pursuant to the first sentence of this Section 4.7(a) shall not be affected by (i) the commencement, public proposal, public disclosure or communication to TPT of any Acquisition Proposal, or (ii) any withdrawal or modification of the TPT Board Recommendation in accordance with Section 4.7(c).

(b) Subject to Section 4.7(c): (i) the Prospectus/Joint Proxy Statement shall include a statement to the effect that the board of directors of TPT unanimously recommends that TPT's stockholders vote to approve

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the issuance of TPT Common Stock in the Merger and the filing of the TPT Charter Amendment and the election of the persons identified on Part 4.17 of the TPT Disclosure Schedule to the TPT board of directors immediately after the Effective Time at the TPT Stockholders Meeting (such unanimous recommendation of TPT's board of directors being referred to as the ***TPT Board Recommendation***); and (ii) the TPT Board Recommendation shall not be withdrawn or modified in a manner adverse to Raptor, and no resolution by the board of directors of TPT or any committee thereof to withdraw or modify the TPT Board Recommendation in a manner adverse to Raptor shall be adopted or proposed.

(c) Notwithstanding anything to the contrary contained in Section 4.7(b), at any time prior to the adoption of this Agreement by the Required TPT Stockholder Vote, the TPT Board Recommendation may be withdrawn or modified in a manner adverse to Raptor if: (i) an Acquisition Proposal is made to TPT and is not withdrawn; (ii) TPT provides Raptor with at least three Business Days prior notice of any meeting of TPT's board of directors at which such board of directors will consider and determine whether such Acquisition Proposal is a Superior Proposal; (iii) TPT's board of directors determines in good faith that such Acquisition Proposal constitutes a Superior Proposal; (iv) TPT's board of directors determines in good faith, after having taken into account such matters as it deems relevant following consultation with its outside legal counsel, that, in light of such Superior Proposal, the failure to withdraw or modify the TPT Board Recommendation is reasonably likely to result in a breach of TPT's board of directors' fiduciary obligations under applicable Legal Requirements; and (v) neither TPT nor any of its Representatives shall have violated any of the restrictions set forth in Section 4.5.

4.8 Raptor Stockholders Meeting.

(a) Raptor shall take all action necessary under all applicable Legal Requirements to call, give notice of and hold a meeting of the holders of Raptor Common Stock to vote on the adoption of this Agreement (the ***Raptor Stockholders Meeting***). The Raptor Stockholders Meeting shall be held as promptly as practicable after the Form S-4 Registration Statement is declared effective under the Securities Act. Raptor shall ensure that all proxies solicited in connection with the Raptor Stockholders Meeting are solicited in compliance with all applicable Legal Requirements. Without limiting the generality of the foregoing, Raptor's obligations pursuant to the first sentence of this Section 4.8(a) shall not be affected by (i) the commencement, public proposal, public disclosure or communication to Raptor of any Acquisition Proposal, or (ii) any withdrawal or modification of the Raptor Board Recommendation in accordance with Section 4.8(c).

(b) Subject to Section 4.8(c): (i) the Prospectus/Joint Proxy Statement shall include a statement to the effect that the board of directors of Raptor unanimously recommends that Raptor's stockholders vote to adopt this Agreement at the Raptor Stockholders Meeting (such unanimous recommendation of Raptor's board of directors being referred to as the ***Raptor Board Recommendation***); and (ii) the Raptor Board Recommendation shall not be withdrawn or modified in a manner adverse to TPT, and no resolution by the board of directors of Raptor or any committee thereof to withdraw or modify the Raptor Board Recommendation in a manner adverse to TPT shall be adopted or proposed.

(c) Notwithstanding anything to the contrary contained in Section 4.8(b), at any time prior to the adoption of this Agreement by the Required Raptor Stockholder Vote, the Raptor Board Recommendation may be withdrawn or modified in a manner adverse to TPT if: (i) an Acquisition Proposal is made to Raptor and is not withdrawn; (ii) Raptor provides TPT with at least three Business Days prior notice of any meeting of Raptor's board of directors at which such board of directors will consider and determine whether such Acquisition Proposal is a Superior Proposal; (iii) Raptor's board of directors determines in good faith that such Acquisition Proposal constitutes a Superior Proposal; (iv) Raptor's board of directors determines in good faith, after having taken into account such matters as it deems relevant following consultation with its outside legal counsel, that, in light of such Superior Proposal, the failure to withdraw or modify the Raptor Board Recommendation is reasonably likely to result in a breach of Raptor's board of directors' fiduciary obligations under applicable Legal Requirements; and (v) neither Raptor nor any of its Representatives shall have violated any of the restrictions set forth in Section 4.5.

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4.9 Regulatory Approvals.

(a) Subject to Section 4.9(c), Raptor and TPT shall use commercially reasonable efforts to take, or cause to be taken, all actions necessary to consummate the Merger and make effective the other Contemplated Transactions. Without limiting the generality of the foregoing, but subject to Section 4.9(c), Raptor and TPT (i) shall make all filings (if any) and give all notices (if any) required to be made and given by such party in connection with the Merger and the other Contemplated Transactions, and shall submit promptly any additional information requested in connection with such filings and notices, (ii) shall use commercially reasonable efforts to obtain each Consent (if any) required to be obtained (pursuant to any applicable Legal Requirement or Contract, or otherwise) by such party in connection with the Merger or any of the other Contemplated Transactions, and (iii) shall use commercially reasonable efforts to oppose or to lift, as the case may be, any restraint, injunction or other legal bar to the Merger. Each Party shall promptly deliver to the other Party a true, complete and accurate copy of each such filing made, each such notice given and each such Consent obtained by such Party during the Pre-Closing Period.

(b) TPT and Raptor shall respond as promptly as practicable to any inquiries or requests received from any Governmental Body in connection with antitrust or related matters. Each of TPT and Raptor shall (i) give the other Party prompt notice of the commencement or threat of commencement of any Legal Proceeding by or before any Governmental Body with respect to the Merger or any of the other Contemplated Transactions, (ii) keep the other Party informed as to the status of any such Legal Proceeding or threat, and (iii) promptly inform the other party of any material communication concerning Antitrust Laws to or from any Governmental Body regarding the Merger. Except as may be prohibited by any Governmental Body or by any Legal Requirement, TPT and Raptor will consult and cooperate with one another, and will consider in good faith the views of one another, in connection with any analysis, appearance, presentation, memorandum, brief, argument, opinion or proposal made or submitted in connection with any Legal Proceeding under or relating to the HSR Act or any other Antitrust Law. In addition, except as may be prohibited by any Governmental Body or by any Legal Requirement, in connection with any Legal Proceeding under or relating to any federal or state antitrust or fair trade law or any other similar Legal Proceeding, each of TPT and Raptor will permit authorized Representatives of the other party to be present at each meeting or conference relating to any such Legal Proceeding and to have access to and be consulted in connection with any document, opinion or proposal made or submitted to any Governmental Body in connection with any such Legal Proceeding.

(c) Notwithstanding anything to the contrary contained in this Agreement, Raptor shall not have any obligation either before or after the Closing under this Agreement: (i) to dispose, transfer or hold separate, or cause any of its Subsidiaries to dispose, transfer or hold separate any assets or operations, or to commit or to cause any of the TPT Corporations to dispose of any assets; (ii) to discontinue or cause any of its Subsidiaries to discontinue offering any product or service, or to commit to cause any of the TPT Corporations to discontinue offering any product or service; (iii) to make or cause any of its Subsidiaries to make any commitment (to any Governmental Body or otherwise) regarding its future operations or the future operations of any of the TPT Corporations; or (iv) to license or otherwise make available, or cause any of its Subsidiaries to license or otherwise make available to any Person any Intellectual Property.

(d) Notwithstanding anything to the contrary contained in this Agreement, TPT shall not have any obligation either before or after the Closing under this Agreement: (i) to dispose, transfer or hold separate, or cause any of its Subsidiaries to dispose, transfer or hold separate any assets or operations, or to commit or to cause any of the Raptor Corporations to dispose of any assets; (ii) to discontinue or cause any of its Subsidiaries to discontinue offering any product or service, or to commit to cause any of the Raptor Corporations to discontinue offering any product or service; (iii) to make or cause any of its Subsidiaries to make any commitment (to any Governmental Body or otherwise) regarding its future operations or the future operations of any of the Raptor Corporations; or (iv) to license or otherwise make available, or cause any of its Subsidiaries to license or otherwise make available to any Person any Intellectual Property.

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4.10 **Disclosure**. Raptor and TPT shall consult with each other before issuing any press release or otherwise making any public statement with respect to the Merger or any of the other Contemplated Transactions. Without limiting the generality of the foregoing, each Party shall not, and shall not permit any of its Representatives to, make any disclosure regarding the Merger or any of the other Contemplated Transactions unless (a) the other Party shall have approved such disclosure or (b) such Party shall have been advised in writing by its outside legal counsel that such disclosure is required by applicable law and, to the extent practicable, before such press release or disclosure is issued or made, such Party advises the other Party of, and consults with the other Party regarding, the text of such press release or disclosure.

4.11 **Tax Matters**. Raptor and TPT shall use commercially reasonable efforts prior to Closing to cause the Merger to qualify as a reorganization under Section 368(a) of the Code. Raptor and TPT shall use their respective commercially reasonable efforts to cause Paul, Hastings, Janofsky & Walker LLP, counsel to Raptor, and Cooley Godward Kronish LLP, counsel to TPT, to deliver (i) at or prior to the filing of the Form S-4 Registration Statement, tax opinions satisfying the requirements of Item 601 of Regulation S-K promulgated under the Securities Act; and (ii) the tax opinions referred to in Sections 5.11 and 6.10, respectively, and, in each case, shall each execute and deliver to such counsel tax representation letters in customary form.

4.12 **Resignation of Officers and Directors**. TPT shall use commercially reasonable efforts to obtain and deliver to Raptor prior to the Closing Date (to be effective as of the Effective Time) the resignation of each officer and director of each of the TPT Corporations (in each case, in their capacities as officers and directors, and, where applicable, not as employees).

4.13 **Listing**. TPT shall promptly (i) to the extent required by the rules and regulations of the NASDAQ, prepare and submit to NASDAQ a notification form on terms and conditions agreed to between the Parties, for the listing of the shares of TPT Common Stock to be issued in the Merger pursuant to this Agreement and use its commercially reasonable efforts to cause such shares to be approved for listing (subject to notice of issuance) on the NASDAQ Capital Market or, to the extent agreed by the Parties, the NASDAQ Global Market, and (ii) to the extent required by Nasdaq Marketplace Rule 5110, file an initial listing application on terms and conditions agreed to between the Parties, for the TPT Common Stock on the NASDAQ Capital Market or, to the extent agreed by the Parties, the NASDAQ Global Market (the ***Nasdaq Listing Application***) and use its commercially reasonable efforts to cause such Nasdaq Listing Application to be conditionally approved prior to the Effective Time, including without limitation, seeking the Required TPT Stockholder Vote and committing to NASDAQ to effect a reverse stock split of the TPT Common Stock (the ***Reverse Stock Split***), if necessary, with respect to the then-outstanding shares of TPT Common Stock. In addition to the foregoing, prior to the Closing, TPT and Raptor shall jointly (i) cooperate to obtain from NASDAQ an extension of time (the ***Listing Extension***) for TPT to regain compliance with Marketplace Rule 5450(b)(1) and (ii) determine the magnitude of the Reverse Stock Split. TPT and Raptor shall cooperate to use commercially reasonable efforts to attempt to cause the Nasdaq Listing Application to be approved and the shares of TPT Common Stock to be issued in the Merger to be approved for listing on the NASDAQ Capital Market or, to the extent agreed by both Parties, the NASDAQ Global Market and each Party shall promptly furnish to the other Parties all information concerning the TPT Corporations and Raptor Corporations and their respective stockholders that may be required or reasonably requested in connection with any action contemplated by this Section 4.13. TPT shall provide Raptor with the opportunity to review and comment on any filings or submissions to be made to NASDAQ prior to their filing or submission and to participate in any proceeding before NASDAQ in connection with any action contemplated by this Section 4.13.

4.14 **Rule 16b-3**. Raptor, TPT and Merger Sub shall take all such commercially reasonable steps as may be required to cause the transactions contemplated by Section 1 and any other dispositions of equity securities of Raptor (including derivative securities) or acquisitions of equity securities of TPT in connection with the Merger by each individual who (a) is a director or officer of Raptor, or (b) at the Effective Time will become a director or officer of TPT, to be exempt under Rule 16b-3 promulgated under the Exchange Act.

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4.15 **Employment; Employee Benefits.** Prior to the Effective Time, TPT shall, if requested to do so by Raptor, terminate all of any TPT Corporation's defined contribution 401(k) plans.

4.16 **State Takeover Laws.** If any state takeover statute becomes or is deemed to be applicable to TPT, Merger Sub, Raptor, or the Contemplated Transactions, then the boards of directors of TPT and Raptor shall take all actions necessary to render such statutes inapplicable to the foregoing.

4.17 **Board of Directors; Officers.** TPT shall have taken or caused to be taken all necessary corporate action such that immediately after the Effective Time the board of directors of TPT shall be composed of the persons listed as directors on Part 4.17 of the TPT Disclosure Schedule and the officers of TPT shall be those persons named as such on Part 4.17 of the TPT Disclosure Schedule.

4.18 **Charter Amendments.** Following the TPT Stockholder's Meeting and prior to the Effective Time, subject to the approval of the TPT Charter Amendment by the Required TPT Stockholder Vote, TPT shall cause to be filed with the Secretary of State of the State of Delaware the TPT Charter Amendment in accordance with the DGCL.

4.19 **Indemnification of Officers and Directors.**

(a) From the Effective Time through the sixth anniversary of the date on which the Effective Time occurs, each of TPT and the Surviving Corporation shall, jointly and severally, indemnify and hold harmless each person who is now, or has been at any time prior to the date hereof, or who becomes prior to the Effective Time, a director or officer of TPT (the ***D&O Indemnified Parties***), against all claims, losses, liabilities, damages, judgments, fines and reasonable fees, costs and expenses, including attorneys' fees and disbursements (collectively, ***Costs***), incurred in connection with any claim, action, suit, proceeding or investigation, whether civil, criminal, administrative or investigative, arising out of or pertaining to the fact that the D&O Indemnified Party is or was a director or officer of TPT, whether asserted or claimed prior to, at or after the Effective Time, to the fullest extent permitted under the DGCL for directors or officers of Delaware corporations; provided, however, that this Section 4.19 shall not apply to any Costs incurred in connection with, arising out of, or pertaining to any of the Lawsuits. Each D&O Indemnified Party will be entitled to advancement of expenses incurred in the defense of any such claim, action, suit, proceeding or investigation from each of TPT and the Surviving Corporation, jointly and severally, upon receipt by TPT or the Surviving Corporation from the D&O Indemnified Party of a request therefor; provided that any Person to whom expenses are advanced provides an undertaking, to the extent then required by the DGCL, to repay such advances if it is ultimately determined that such Person is not entitled to indemnification.

(b) The certificate of incorporation and bylaws of each of TPT and the Surviving Corporation shall contain, and TPT shall cause the certificate of incorporation and bylaws of the Surviving Corporation to so contain, provisions no less favorable with respect to indemnification, advancement of expenses and exculpation of present and former directors and officers of TPT than are presently set forth in the certificate of incorporation and bylaws of TPT, which provisions shall not be amended, modified or repealed for a period of six years time from the Effective Time in a manner that would adversely affect the rights thereunder of individuals who, at or prior to the Effective Time, were officers or directors of TPT.

(c) Raptor shall purchase an insurance policy, with an effective date as of the Closing, which maintains in effect for six years from the Closing the current directors' and officers' liability insurance policies maintained by TPT (provided that Raptor may substitute therefor policies of at least \$5,000,000 of coverage containing terms and conditions that are not materially less favorable) with respect to matters occurring prior to the Closing; provided, however, that in no event shall Raptor be required to expend pursuant to this Section 4.19(c) more than an amount equal to \$65,000 for such insurance.

(d) TPT shall pay all expenses, including reasonable attorneys' fees, that may be incurred by the persons referred to in this Section 4.19 in connection with their enforcement of their rights provided in this Section 4.19.

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(e) The provisions of this Section 4.19 are intended to be in addition to the rights otherwise available to the current and former officers and directors of TPT by law, charter, statute, by-law or agreement, and shall operate for the benefit of, and shall be enforceable by, each of the D&O Indemnified Parties, their heirs and their representatives.

(f) In the event TPT or the Surviving Corporation or any of their respective successors or assigns (i) consolidates with or merges into any other Person and shall not be the continuing or surviving corporation or Entity of such consolidation or merger, or (ii) transfers all or substantially all of its properties and assets to any Person, then, and in each such case, proper provision shall be made so that the successors and assigns of TPT or the Surviving Corporation, as the case may be, shall succeed to the obligations set forth in this Section 4.19.

(g) TPT shall cause the Surviving Corporation to perform all of the obligations of the Surviving Corporation under this Section 4.19.

SECTION 5

CONDITIONS PRECEDENT

TO OBLIGATIONS OF RAPTOR

The obligations of Raptor to effect the Merger and otherwise consummate the Contemplated Transactions are subject to the satisfaction, or waiver by Raptor, on or before the Closing, of each of the following conditions:

5.1 **Accuracy of Representations and Warranties.** Each of the representations and warranties of TPT and Merger Sub set forth in this Agreement shall be true and correct in each case as of the date of this Agreement and as of the Closing Date with the same effect as though made on and as of the Closing Date, except (a) in each case, or in the aggregate, where the failure to be true and correct would not reasonably be expected to have a TPT Material Adverse Effect (it being understood that, for purposes of determining the accuracy of such representations and warranties, all TPT Material Adverse Effect qualifications and other qualifications based on the word material contained in such representations and warranties shall be disregarded), (b) that the accuracy of representations and warranties that by their terms speak as of a specified date will be determined as of such date, and (c) to the extent that any representation and/or warranty shall not be true and correct due to those activities permitted under Section 4.2 and consented to in writing by Raptor. Raptor shall have received a certificate signed on behalf of TPT and Merger Sub by the chief executive officer and chief financial officer of each of TPT and Merger Sub to such effect.

5.2 **Performance of Covenants.** Each of the covenants and obligations that TPT and Merger Sub is required to comply with or perform at or prior to the Closing Date shall have been complied with or performed in all material respects and TPT and Merger Sub shall have provided Raptor with a certificate from an executive officer of TPT and Merger Sub to this effect.

5.3 **Effectiveness of Form S-4 Registration Statement.** The Form S-4 Registration Statement shall have been declared effective by the SEC in accordance with the provisions of the Securities Act, no stop order suspending the effectiveness of the Form S-4 Registration Statement shall have been issued by the SEC, and no proceeding for that purpose shall have been initiated or threatened by the SEC. All necessary permits and authorizations under any Blue Sky Laws, the Securities Act and the Exchange Act relating to the issuance of the TPT Common Stock to be issued in the Merger shall have been obtained and shall be in effect.

5.4 **Stockholder Approval.** The issuance of the TPT Common Stock in the Merger, the filing of the TPT Charter Amendment and the election of the persons identified on Part 4.17 of the TPT Disclosure Schedule to the TPT board of directors immediately after the Effective Time shall have been duly approved by the Required TPT Stockholder Vote. This Agreement shall have been duly adopted by the Required Raptor Stockholder Vote.

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5.5 Dissenters' Rights. The stockholders of Raptor holding not more than 10% of the Raptor Common Stock outstanding immediately prior to the Effective Time shall have exercised their statutory dissenters' rights under Section 262 of the DGCL; provided, however, that such percentage shall not include any shares of Raptor Common Stock which are held by a director or executive officer of Raptor or the 13,128,332 shares of Raptor Common Stock held by Aran Asset Management SA as of the date hereof.

5.6 Listing. The shares of TPT Common Stock to be issued in the Merger shall have been approved for listing (subject to official notice of issuance) on the NASDAQ Capital Market or, to the extent agreed by the Parties pursuant to Section 4.13, the NASDAQ Global Market.

5.7 No Material Adverse Effect. Since the date of this Agreement, there shall not have occurred and be continuing a TPT Material Adverse Effect.

5.8 Consents. All Consents set forth on Part 5.8 of the TPT Disclosure Schedule shall have been obtained, made or given and shall be in full force and effect.

5.9 No Restraints. No temporary restraining order, preliminary or permanent injunction or other Order preventing the consummation of the Merger shall have been issued by any court of competent jurisdiction or any other Governmental Body and shall remain in effect, and there shall not be any Legal Requirement enacted, promulgated, adopted or deemed applicable to the Merger that makes consummation of the Merger illegal or otherwise prohibits or interferes with the consummation of the Merger.

5.10 No Litigation. There shall not be pending any Legal Proceeding initiated by any Governmental Body: (a) challenging or seeking to restrain or prohibit the consummation of the Merger or any of the other Contemplated Transactions; (b) relating to the Merger and seeking to obtain from either Party or any of its Subsidiaries any damages that may be material to Raptor or TPT; (c) seeking to prohibit or limit in any material respect Raptor's current stockholders' ability to vote, receive dividends with respect to or otherwise exercise ownership rights with respect to the stock of TPT that they will receive in connection with the Merger; (d) which would materially and adversely affect the right of TPT or the Surviving Corporation to own the assets or operate the business of the TPT Corporations or Raptor or any of Raptor's current Subsidiaries; (e) seeking to compel Raptor or TPT or any Subsidiary of Raptor or TPT to dispose of or hold separate any material assets, as a result of the Merger or any of the other transactions Contemplated Transactions; or (f) which, if adversely determined, would reasonably be expected to have a TPT Material Adverse Effect or a Raptor Material Adverse Effect.

5.11 Tax Opinion. Raptor shall have received a legal opinion from Paul, Hastings, Janofsky & Walker LLP, counsel to Raptor, dated as of or effective on the Closing Date, addressed to Raptor, to the effect that for federal income tax purposes the Merger will constitute a reorganization within the meaning of Section 368(a) of the Code, provided that in rendering such opinion, counsel to Raptor may rely upon the tax representation letters referred to in Section 4.11, and such opinion shall be in full force and effect. If Paul, Hastings, Janofsky & Walker LLP does not render such opinion, this condition shall nonetheless be deemed satisfied if Cooley Godward Kronish LLP renders such opinion to Raptor (it being agreed that TPT and Raptor shall each provide reasonable cooperation, including making reasonable and customary representations, to Paul, Hastings, Janofsky & Walker LLP or Cooley Godward Kronish LLP, as the case may be, to enable them to render such opinion and that counsel shall be entitled to rely on such representations and such assumptions as they deem appropriate in rendering such opinion).

5.12 Cash and Cash Equivalents. The Net Cash at Closing shall be greater than zero dollars.

5.13 Resignations. As of the Closing, Raptor shall have received a duly executed resignation from each person serving as an officer or director of TPT (including any committee thereof) and any Subsidiary of TPT (including any committee thereof), serving in their capacities as such.

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5.14 Ancillary Agreements and Deliveries. TPT shall have delivered, or caused to be delivered, to Raptor the items listed on Schedule 5.14 of the TPT Disclosure Schedule, each of which, in the case of agreements and documents, shall be duly executed and in full force and effect.

5.15 Releases. As of the Closing, Raptor shall have received a Release and Waiver of Claims in the form attached hereto as Exhibit E, duly executed by each of Evelyn Graham, Craig Johnson and Paul Schneider.

SECTION 6

CONDITIONS PRECEDENT TO OBLIGATIONS OF TPT

The obligation of TPT to effect the Merger and otherwise consummate the Contemplated Transactions is subject to the satisfaction, or waiver by TPT, on or before the Closing, of each of following conditions:

6.1 Representations and Warranties. Each of the representations and warranties of Raptor set forth in this Agreement shall be true and correct in each case as of the date of this Agreement and as of the Closing Date with the same effect as though made on and as of the Closing Date, except (a) in each case, or in the aggregate, where the failure to be true and correct would not reasonably be expected to have a Raptor Material Adverse Effect (it being understood that, for purposes of determining the accuracy of such representations and warranties, all Raptor Material Adverse Effect qualifications and other qualifications based on the word material contained in such representations and warranties shall be disregarded), (b) that the accuracy of representations and warranties that by their terms speak as of a specified date will be determined as of such date, and (c) to the extent that any representation and/or warranty shall not be true and correct due to those activities permitted under Section 4.3. TPT shall have received a certificate signed on behalf of Raptor by the chief executive officer and chief financial officer of Raptor to such effect.

6.2 Performance of Covenants. Each of the covenants and obligations that Raptor is required to comply with or perform at or prior to the Closing Date shall have been complied with or performed in all material respects, and Raptor shall have provided TPT with a certificate from an executive officer of Raptor to this effect.

6.3 Effectiveness of Form S-4 Registration Statement. The Form S-4 Registration Statement shall have been declared effective by the SEC in accordance with the provisions of the Securities Act, no stop order suspending the effectiveness of the Form S-4 Registration Statement shall have been issued by the SEC, and no proceeding for that purpose shall have been initiated or threatened by the SEC.

6.4 Stockholder Approval. The issuance of the TPT Common Stock in the Merger, the filing of TPT Charter Amendment and the election of the persons identified on Part 4.17 of the TPT Disclosure Schedule to the TPT board of directors immediately after the Effective Time shall have been duly approved by the Required TPT Stockholder Vote. This Agreement shall have been duly adopted by the Required Raptor Stockholder Vote.

6.5 Listing. The shares of TPT Common Stock to be issued in the Merger shall have been approved for listing (subject to official notice of issuance) on the NASDAQ Capital Market or, to the extent agreed by the Parties pursuant to Section 4.13, the NASDAQ Global Market.

6.6 No Material Adverse Effect. Since the date of this Agreement, there shall not have occurred and be continuing a Raptor Material Adverse Effect.

6.7 Consents. All Consents set forth on Part 6.7 of the Raptor Disclosure Schedule shall have been obtained, made or given and shall be in full force and effect.

6.8 No Restraints. No temporary restraining order, preliminary or permanent injunction or other Order preventing the consummation of the Merger shall have been issued by any court of competent jurisdiction or any

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other Governmental Body and shall remain in effect, and there shall not be any Legal Requirement enacted, promulgated, adopted or deemed applicable to the Merger that makes consummation of the Merger illegal or otherwise prohibits or interferes with the consummation of the Merger.

6.9 **No Litigation.** There shall not be pending any Legal Proceeding initiated by any Governmental Body: (a) challenging or seeking to restrain or prohibit the consummation of the Merger or any of the other Contemplated Transactions; (b) relating to the Merger and seeking to obtain from either Party or any of its Subsidiaries any damages that may be material to Raptor or TPT; (c) seeking to prohibit or limit in any material respect Raptor's current stockholders' ability to vote, receive dividends with respect to or otherwise exercise ownership rights with respect to the stock of TPT that they will receive in connection with the Merger; (d) which would materially and adversely affect the right of TPT or the Surviving Corporation to own the assets or operate the business of the TPT Corporations or Raptor or any of Raptor's current Subsidiaries; (e) seeking to compel Raptor or TPT or any Subsidiary of Raptor or TPT to dispose of or hold separate any material assets, as a result of the Merger or any of the other transactions Contemplated Transactions; or (f) which, if adversely determined, would reasonably be expected to have a TPT Material Adverse Effect or a Raptor Material Adverse Effect.

6.10 **Tax Opinion.** TPT shall have delivered to Raptor a legal opinion of Cooley Godward Kronish LLP, counsel to TPT, dated as of or effective on the Closing Date, to the effect that the Merger will constitute a reorganization within the meaning of Section 368(a) of the Code, provided that in rendering such opinion, counsel to Raptor may rely upon the tax representation letters referred to in Section 4.11, and such opinion shall be in full force and effect. If Cooley Godward Kronish LLP does not render such opinion, this condition shall nonetheless be deemed satisfied if Paul, Hastings, Janofsky & Walker LLP renders such opinion to TPT (it being agreed that TPT and Raptor shall each provide reasonable cooperation, including making reasonable and customary representations, to Paul, Hastings, Janofsky & Walker LLP or Cooley Godward Kronish LLP, as the case may be, to enable them to render such opinion and that counsel shall be entitled to rely on such representations and such assumptions as they deem appropriate in rendering such opinion).

6.11 **Ancillary Agreements and Deliveries.** Raptor shall have delivered, or caused to be delivered, to TPT the items listed on Schedule 6.11 of the Raptor Disclosure Schedule, each of which, in the case of agreements and documents, shall be duly executed and in full force and effect.

SECTION 7

TERMINATION

7.1 **Termination.** This Agreement may be terminated prior to the Effective Time (whether before or after adoption of this Agreement by the Raptor stockholders, and whether before or after approval of the issuance of the TPT Common Stock in the Merger and the filing of the TPT Charter Amendment by TPT's stockholders and the election of the persons identified on Part 4.17 of the TPT Disclosure Schedule to the TPT board of directors immediately after the Effective Time):

(a) by mutual written Consent of Raptor and TPT duly authorized by the boards of directors of TPT and Raptor;

(b) by either Raptor or TPT if the Merger shall not have been consummated by November 30, 2009 (unless the failure to consummate the Merger is attributable to a failure on the part of the Party seeking to terminate this Agreement to perform any material obligation required to be performed by such Party at or prior to the Effective Time);

(c) by either Raptor or TPT if a court of competent jurisdiction or other Governmental Body shall have issued a final and nonappealable Order, decree or ruling, or shall have taken any other action, having the effect of permanently restraining, enjoining or otherwise prohibiting the Merger;

(d) by either Raptor or TPT if (i) the TPT Stockholders' Meeting (including any adjournments and postponements thereof) shall have been held and completed and TPT's stockholders shall have taken a final

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vote to approve the issuance of shares of TPT Common Stock in the Merger and the filing of the TPT Charter Amendment and (ii) the proposals described in clause (i) hereof shall not have been approved at such meeting (and such proposals shall not have been approved at any adjournment or postponement thereof) by the Required TPT Stockholder Vote; provided, however, that a Party shall not be permitted to terminate this Agreement pursuant to this Section 7.1(d) if the failure to obtain such stockholder approval is attributable to a failure on the part of such Party to perform any material obligation required to be performed by such Party at or prior to the Effective Time;

(e) by either Raptor or TPT if (i) the Raptor Stockholders Meeting (including any adjournments and postponements thereof) shall have been held and completed and Raptor's stockholders shall have taken a final vote to adopt this Agreement and (ii) the proposal described in clause (i) hereof shall not have been approved and this Agreement shall not have been adopted at such meeting (and such proposal shall not have been approved, and this Agreement shall not have been adopted, at any adjournment or postponement thereof) by the Required Raptor Stockholder Vote; provided, however, that a Party shall not be permitted to terminate this Agreement pursuant to this Section 7.1(e) if the failure to obtain such stockholder vote is attributable to a failure on the part of the Party seeking to terminate this Agreement to perform any material obligation required to be performed by such Party at or prior to the Effective Time;

(f) by Raptor (at any time prior to the TPT stockholders having voted their shares of TPT Common Stock in favor of the proposals set forth in the Required TPT Stockholder Vote) if a TPT Triggering Event shall have occurred;

(g) by TPT (at any time prior to the adoption of this Agreement by the Required Raptor Stockholder Vote) if a Raptor Triggering Event shall have occurred;

(h) by Raptor, upon a breach of any representation, warranty, covenant or agreement on the part of TPT or Merger Sub set forth in this Agreement, or if any representation or warranty of TPT or Merger Sub shall have become inaccurate, in either case such that the conditions set forth in Section 5.1 or Section 5.2 would not be satisfied as of the time of such breach or as of the time such representation or warranty shall have become inaccurate, provided that if such inaccuracy in TPT's or Merger Sub's representations and warranties or breach by TPT or Merger Sub is curable by TPT or Merger Sub, then this Agreement shall not terminate pursuant to this Section 7.1(h) as a result of such particular breach or inaccuracy until the earlier of (i) the expiration of a thirty (30) day period commencing upon delivery of written notice from Raptor to TPT or Merger Sub of such breach or inaccuracy and (ii) TPT or Merger Sub (as applicable) ceasing to exercise commercially reasonable efforts to cure such breach (it being understood that this Agreement shall not terminate pursuant to this paragraph 7.1(h) as a result of such particular breach or inaccuracy if such breach by TPT or Merger Sub is cured prior to such termination becoming effective); or

(i) by TPT, upon a breach of any representation, warranty, covenant or agreement on the part of Raptor set forth in this Agreement, or if any representation or warranty of Raptor shall have become inaccurate, in either case such that the conditions set forth in Section 6.1 or Section 6.2 would not be satisfied as of the time of such breach or as of the time such representation or warranty shall have become inaccurate, provided that if such inaccuracy in Raptor's representations and warranties or breach by Raptor is curable by Raptor, then this Agreement shall not terminate pursuant to this Section 7.1(i) as a result of such particular breach or inaccuracy until the earlier of (i) the expiration of a thirty (30) day period commencing upon delivery of written notice from TPT to Raptor of such breach or inaccuracy and (ii) Raptor ceasing to exercise commercially reasonable efforts to cure such breach (it being understood that this Agreement shall not terminate pursuant to this paragraph 7.1(i) as a result of such particular breach or inaccuracy if such breach by Raptor is cured prior to such termination becoming effective).

7.2 Effect of Termination. In the event of the termination of this Agreement as provided in Section 7.1, this Agreement shall be of no further force or effect; provided, however, that (a) this Section 7.2, Section 7.3 and Section 8 shall survive the termination of this Agreement and shall remain in full force and effect, and (b) the termination of this Agreement shall not relieve any party from any liability for any material inaccuracy in or

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material breach of any representation or any material breach of any warranty, covenant or other provision contained in this Agreement.

7.3 Expenses.

(a) Except as set forth in this Section 7.3, all fees and expenses incurred in connection with this Agreement and the Contemplated Transactions shall be paid by the party incurring such expenses, whether or not the Merger is consummated; provided, however, that Raptor shall pay all fees and expenses, other than fees and expenses of attorneys, accountants, and financial advisors, incurred in connection with the filing with the SEC, printing and mailing of the Form S-4 Registration Statement and the Prospectus/Joint Proxy Statement and any amendments or supplements thereto.

(b) If this Agreement is terminated (A) by Raptor or TPT pursuant to Section 7.1(d) and (i) at any time before the TPT Stockholders Meeting an Acquisition Proposal with respect to TPT shall have been publicly announced, disclosed or otherwise communicated to TPT's board of directors and stockholders (any such Acquisition Proposal with respect to TPT that shall have been so publicly announced, disclosed or otherwise communicated at any time before the TPT Stockholders Meeting, an *Applicable TPT Acquisition Proposal*) and (ii) within six months after the termination of this Agreement, TPT enters into any agreement for an Acquisition Transaction or consummates an Acquisition Transaction with any Person that made an Applicable TPT Acquisition Proposal or any of its Affiliates or (B) by Raptor pursuant to Section 7.1(f), in either case, without duplication, then TPT shall pay to Raptor an amount equal to the lesser of (i) \$250,000 and (ii) all Expenses of Raptor within seven (7) Business Days after delivery by Raptor to TPT of a demand for payment and an itemization setting forth in reasonable detail all Expenses of Raptor.

(c) If this Agreement is terminated (A) by TPT or Raptor pursuant to Section 7.1(e) and (i) at any time before the Raptor Stockholders Meeting an Acquisition Proposal with respect to Raptor shall have been publicly announced, disclosed or otherwise communicated to the board of directors of Raptor and stockholders of Raptor (any such Acquisition Proposal with respect to Raptor that shall have been so publicly announced, disclosed or otherwise communicated at any time before the Raptor Stockholders Meeting, an *Applicable Raptor Acquisition Proposal*) and (ii) within six months after the termination of this Agreement, Raptor enters into any agreement for an Acquisition Transaction or consummates an Acquisition Transaction with any Person that made an Applicable Raptor Acquisition Proposal or any of its Affiliates or (B) by TPT pursuant to Section 7.1(g), in either case, without duplication, then Raptor shall pay to TPT an amount equal to the lesser of (i) \$250,000 and (ii) all Expenses of TPT within seven (7) Business Days after delivery by TPT to Raptor of a demand for payment and an itemization setting forth in reasonable detail all Expenses of TPT.

(d) If either Merger Party fails to pay when due any amount payable by such Merger Party under Section 7.3(b) or (c), then (i) such Merger Party shall reimburse the other Merger Party for reasonable costs and expenses (including reasonable fees and disbursements of counsel) incurred in connection with the collection of such overdue amount and the enforcement by the other Merger Party of its rights under this Section 7.3, and (ii) such Merger Party shall pay to the other Merger Party interest on such overdue amount (for the period commencing as of the date such overdue amount was originally required to be paid and ending on the date such overdue amount is actually paid to the other Merger Party in full) at a rate per annum equal to the prime rate (as reported in the Wall Street Journal or any successor thereto) in effect on the date such overdue amount was originally required to be paid.

SECTION 8

MISCELLANEOUS PROVISIONS

8.1 Amendment. This Agreement may be amended at any time prior to the Effective Time by the Merger Parties, by action taken or authorized by their respective boards of directors, whether before or after adoption of

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this Agreement by the stockholders of Raptor or before or after the TPT stockholders having voted their shares of TPT Common Stock in favor of the proposals set forth in the Required TPT Stockholder Vote; provided, however, that after any such stockholder approval of this Agreement, no amendment shall be made to this Agreement that by law requires further approval or authorization by the stockholders of TPT or Raptor without such further approval or authorization. This Agreement may not be amended, except by an instrument in writing signed by or on behalf of each of the Merger Parties.

8.2 Remedies Cumulative; Waiver.

(a) The rights and remedies of the Merger Parties to this Agreement are cumulative and not alternative. Neither any failure nor any delay by any Merger Party in exercising any right, power or privilege under this Agreement or any of the documents referred to in this Agreement will operate as a waiver of such right, power or privilege and no single or partial exercise of any such right, power or privilege will preclude any other or further exercise of such right, power or privilege or the exercise of any other right, power or privilege. To the maximum extent permitted by applicable law, (i) no waiver that may be given by a Merger Party will be applicable except in the specific instance for which it is given; and (ii) no notice to or demand on one Merger Party will be deemed to be a waiver of any obligation of that Merger Party or of the right of the Merger Party giving such notice or demand to take further action without notice or demand as provided in this Agreement or the documents referred to in this Agreement.

(b) At any time prior to the Effective Time, Raptor (with respect to TPT and Merger Sub) and TPT (with respect to Raptor), may, to the extent legally allowed, (i) extend the time for the performance of any of the obligations or other acts of such Merger Party to this Agreement, (ii) waive any inaccuracies in the representation and warranties contained in this Agreement or any document delivered pursuant to this Agreement and (iii) waive compliance with any covenants, obligations or conditions contained in this Agreement. Any agreement on the part of a Merger Party to this Agreement to any such extension or waiver shall be valid only if set forth in a written instrument signed on behalf of such Merger Party.

8.3 No Survival. None of the representations and warranties, or any covenant to be performed prior to the Effective Time, contained in this Agreement shall survive the Effective Time.

8.4 Entire Agreement. This Agreement (including the documents relating to the Merger referred to in this Agreement) and the Confidentiality Agreement constitute the entire agreement among the Merger Parties and supersede all other prior agreements and understandings, both written and oral, among or between any of the Merger Parties with respect to the subject matter hereof and thereof.

8.5 Execution of Agreement; Counterparts; Electronic Signatures.

(a) This Agreement may be executed in several counterparts, each of which shall be deemed an original and all of which shall constitute one and the same instrument, and shall become effective when counterparts have been signed by each of the Merger Parties and delivered to the other Merger Parties, it being understood that all Merger Parties need not sign the same counterpart.

(b) The exchange of copies of this Agreement and of signature pages by facsimile transmission (whether directly from one facsimile device to another by means of a dial-up connection or whether mediated by the worldwide web), by electronic mail in portable document format (.pdf) form, or by any other electronic means intended to preserve the original graphic and pictorial appearance of a document, or by a combination of such means, shall constitute effective execution and delivery of this Agreement as to the Merger Parties and may be used in lieu of an original Agreement for all purposes. Signatures of the Merger Parties transmitted by facsimile shall be deemed to be their original signatures for all purposes.

8.6 Governing Law. This Agreement shall be governed by, and construed in accordance with, the laws of the State of Delaware, regardless of the laws that might otherwise govern under applicable principles of conflicts of law thereof.

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8.7 Consent to Jurisdiction: Venue. In any action or proceeding between any of the Merger Parties arising out of or relating to this Agreement or any of Contemplated Transactions, each of the Merger Parties: (a) irrevocably and unconditionally consents and submits to the exclusive jurisdiction and venue of the Court of Chancery of the State of Delaware; (b) agrees that all claims in respect of such action or proceeding may be heard and determined exclusively in the Court of Chancery of the State of Delaware; (c) agrees that it shall not attempt to deny or defeat such personal jurisdiction by motion or other request for leave from any such court; and (d) agrees not to bring any action or proceeding (including counter-claims) arising out of or relating to this Agreement or any of the Contemplated Transactions in any other court. Each of the Merger Parties hereto waives any defense of inconvenient forum to the maintenance of any action or proceeding so brought and waives any bond, surety or other security that might be required of any other Merger Party with respect thereto. Any Merger Party hereto may make service on another Merger Party by sending or delivering a copy of the process to the Merger Party to be served at the address and in the manner provided for the giving of notices in Section 8.13. Nothing in this Section 8.7, however, shall affect the right of any Merger Party to serve legal process in any other manner permitted by law.

8.8 WAIVER OF JURY TRIAL. EACH OF THE MERGER PARTIES IRREVOCABLY WAIVES ANY AND ALL RIGHTS TO TRIAL BY JURY IN ANY ACTION OR PROCEEDING BETWEEN THE MERGER PARTIES ARISING OUT OF OR RELATING TO THIS AGREEMENT AND THE CONTEMPLATED TRANSACTIONS.

8.9 Disclosure Schedules.

(a) The TPT Disclosure Schedule and the Raptor Disclosure Schedule shall be arranged in separate Parts corresponding to the numbered and lettered sections contained in Section 2 and Section 3, respectively. The information disclosed in any numbered or lettered Part shall be deemed to relate to and shall qualify other sections and subsections in Section 2 or Section 3, as the case may be, only to the extent it is readily apparent that the disclosure contained in such numbered and lettered sections contains enough information regarding the subject matter of the other representations in Section 2 or Section 3, as the case may be, as to clearly qualify or otherwise clearly apply to such other representations and warranties.

(b) If there is any inconsistency between the statements in this Agreement and those in the TPT Disclosure Schedule or the Raptor Disclosure Schedule (other than an exception set forth as such in the TPT Disclosure Schedule or the Raptor Disclosure Schedule), the statements in this Agreement will control.

(c) Every statement made in the TPT Disclosure Schedule shall be deemed to be a representation of TPT and each other TPT Corporation in this Agreement as if set forth in Section 2. Every statement made in the Raptor Disclosure Schedule shall be deemed to be a representation of Raptor in this Agreement as if set forth in Section 3.

8.10 Attorneys Fees. In any action at law or suit in equity to enforce this Agreement or the rights of any of the Merger Parties hereunder and except as provided in Section 7.3, the prevailing Merger Party in such action or suit shall be entitled to receive a reasonable sum for its attorneys fees and all other reasonable costs and expenses incurred in such action or suit.

8.11 Assignments and Successors. This Agreement shall be binding upon, and shall be enforceable by and inure solely to the benefit of, the Merger Parties hereto and their respective successors and assigns; provided, however, that neither this Agreement nor any of a Merger Party's rights or obligations hereunder may be assigned or delegated by such Merger Party without the prior written Consent of the other Merger Parties. Any attempted assignment of this Agreement or of any such Merger Party's rights or obligations without such Consent shall be void and of no effect.

8.12 No Third Party Rights. Nothing in this Agreement, express or implied, is intended to or shall confer upon any Person (other than: (a) the Merger Parties hereto; (b) rights pursuant to Section 1, and (c) the D&O

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Indemnified Parties to the extent of their respective rights pursuant to Section 4.19) any right, benefit or remedy of any nature whatsoever under or by reason of this Agreement. Notwithstanding anything to the contrary in this Agreement, the Merger Parties expressly acknowledge and agree that (i) this Agreement is not intended to create a contract between Raptor, the Surviving Corporation, or any of the TPT Corporations on the one hand and any employee of the Surviving Corporation or any of the TPT Corporations, on the other hand, relating to employment or employee benefits and no employee may rely on this Agreement as the basis for any breach of contract claim relating to employment or employee benefits against Raptor, the Surviving Corporation, or any of the TPT Corporations; (ii) nothing in this Agreement shall be deemed or construed to require Raptor, the Surviving Corporation, or any of the TPT Corporations to continue to employ any particular employee for any period after Closing, (iii) nothing in this Agreement shall be deemed or construed to limit Raptor's, the Surviving Corporation's, or any TPT Corporation's right to terminate the employment of any employee during any period after Closing, and (iv) nothing in this Agreement shall modify or amend any benefit plan or other agreement, plan, program, or document unless this Agreement explicitly states that the provision amends such benefit plan or other agreement, plan, program, or document.

8.13 **Notices.** All notices, Consents, waivers and other communications required or permitted by this Agreement shall be in writing and shall be deemed given to a Merger Party when (a) delivered to the appropriate address by hand or by nationally recognized overnight courier service (costs prepaid); or (b) sent by facsimile or e-mail with confirmation of transmission by the transmitting equipment confirmed with a copy delivered as provided in clause (a), in each case to the following addresses, facsimile numbers or e-mail addresses and marked to the attention of the Person (by name or title) designated below (or to such other address, facsimile number, e-mail address or person as a Merger Party may designate by notice to the other Merger Parties):

TPT and Merger Sub (before the Closing):

TorreyPines Therapeutics, Inc.
Address: P.O. Box 231386

Encinitas, CA 92023-1386
Attention: Craig Johnson
E-mail Address: cjohnson@torreypinestherapeutics.com

With a copy to:

Address: 7616 Marker Road

San Diego, CA 92130
Attention: Paul Schneider
E-mail Address: pschneider@torreypinestherapeutics.com

With a copy to: Cooley Godward Kronish LLP

Address: 4401 Eastgate Mall

San Diego, CA 92121
Attention: Matthew T. Browne
Fax No.: (858) 550-6420
E-mail Address: mbrowne@cooley.com

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Raptor Pharmaceuticals Corp.
Address: 9 Commercial Blvd., Suite 200

Novato, CA 94949
Attention: Christopher M. Starr, Ph.D., CEO
Fax No.: 415-382-1458
Email Address: cstarr@raptorpharma.com

With a copy to: Paul, Hastings, Janofsky & Walker LLP
Address: 515 S. Flower St., Flr. 25

Los Angeles, CA 90071
Attention: Siobhan M. Burke, Esq.
Fax No.: 213-627-0705
Email Address: siobhanburke@paulhastings.com

8.14 **Cooperation; Further Assurances.** Each Merger Party agrees to cooperate fully with the other Merger Parties and to execute and deliver such further documents, certificates, agreements and instruments and to take such other actions as may be reasonably requested by the other Merger Parties to evidence or reflect the Contemplated Transactions and to carry out the intent and purposes of this Agreement.

8.15 **Construction; Usage.**

(a) **Interpretation.** In this Agreement, unless a clear contrary intention appears:

(i) the singular number includes the plural number and vice versa;

(ii) reference to any Person includes such Person's successors and assigns but, if applicable, only if such successors and assigns are not prohibited by this Agreement, and reference to a Person in a particular capacity excludes such Person in any other capacity or individually;

(iii) reference to any gender includes each other gender;

(iv) reference to any agreement, document or instrument means such agreement, document or instrument as amended or modified and in effect from time to time in accordance with the terms thereof;

(v) reference to any Legal Requirement means such Legal Requirement as amended, modified, codified, replaced or reenacted, in whole or in part, and in effect from time to time, including rules and regulations promulgated thereunder, and reference to any section or other provision of any Legal Requirement means that provision of such Legal Requirement from time to time in effect and constituting the substantive amendment, modification, codification, replacement or reenactment of such section or other provision;

(vi) hereunder, hereof, hereto, and words of similar import shall be deemed references to this Agreement as a whole and not to any particular Section or other provision hereof;

(vii) including (and with correlative meaning include) means including without limiting the generality of any description preceding such term;

(viii) or is used in the inclusive sense of and/or;

(ix) with respect to the determination of any period of time, from means from and including and to means to but excluding; and

(x) references to documents, instruments or agreements shall be deemed to refer as well to all addenda, exhibits, schedules or amendments thereto.

(b) **Legal Representation of the Merger Parties.** This Agreement was negotiated by the Merger Parties with the benefit of legal representation and any rule of construction or interpretation otherwise requiring this

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Agreement to be construed or interpreted against any Merger Party shall not apply to any construction or interpretation hereof.

(c) **Headings**. The headings contained in this Agreement are for convenience of reference only, shall not be deemed to be a part of this Agreement and shall not be referred to in connection with the construction or interpretation of this Agreement.

8.16 **Enforcement of Agreement**. The Merger Parties acknowledge and agree that the other Merger Parties would be irreparably damaged if any of the provisions of this Agreement are not performed in accordance with their specific terms and that any breach of this Agreement by a Merger Party could not be adequately compensated in all cases by monetary damages alone. Accordingly, in addition to any other right or remedy to which any Merger Party may be entitled, at law or in equity, it shall be entitled to enforce any provision of this Agreement by a decree of specific performance and temporary, preliminary and permanent injunctive relief to prevent breaches or threatened breaches of any of the provisions of this Agreement, without posting any bond or other undertaking.

8.17 **Severability**. If any provision of this Agreement is held invalid or unenforceable by any court of competent jurisdiction, the other provisions of this Agreement will remain in full force and effect. Any provision of this Agreement held invalid or unenforceable only in part or degree will remain in full force and effect to the extent not held invalid or unenforceable.

8.18 **Time of Essence**. With regard to all dates and time periods set forth or referred to in this Agreement, time is of the essence.

[Signature Page to Follow]

IN WITNESS WHEREOF, the Merger Parties have caused this Agreement to be executed as of the date first above written.

TORREYPINES THERAPEUTICS, INC.

By: /s/ Evelyn Graham
Name: Evelyn Graham
Title: Chief Executive Officer

ECP ACQUISITION, INC.

By: /s/ Evelyn Graham
Name: Evelyn Graham
Title: President

RAPTOR PHARMACEUTICALS CORP.

By: /s/ Christopher M. Starr
Name: Christopher M. Starr, Ph. D
Title: Chief Executive Officer

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[Signature Page to Agreement and Plan of Merger and Reorganization]

EXHIBIT A

CERTAIN DEFINITIONS

For purposes of the Agreement (including this Exhibit A):

Acquisition Proposal shall mean any offer, proposal, inquiry or indication of interest (other than an offer, proposal, inquiry or indication of interest by TPT or Raptor, as applicable) contemplating or otherwise relating to any Acquisition Transaction.

Acquisition Transaction shall mean any transaction or series of transactions involving: (a) any merger, consolidation, share exchange, business combination, issuance of securities, acquisition of securities, tender offer, exchange offer or other similar transaction (i) in which any of the TPT Corporations or Raptor Corporations, as applicable, is a constituent corporation, (ii) in which a Person or group (as defined in the Exchange Act and the rules promulgated thereunder) of Persons directly or indirectly acquires beneficial or record ownership of securities representing more than 15% of the outstanding securities of any class of voting securities of any of the TPT Corporations or Raptor Corporations, as applicable, or (iii) in which any of the TPT Corporations or Raptor Corporations, as applicable, issues or sells securities representing more than 15% of the outstanding securities of any class of voting securities of any of the TPT Corporations or Raptor Corporations, as applicable; or (b) any sale, lease (other than in the ordinary course of business), exchange, transfer, license (other than nonexclusive licenses in the ordinary course of business), acquisition or disposition of any business or businesses or assets that constitute or account for 15% or more of the consolidated net revenues, net income or assets (on a book value or fair market value basis) of the TPT Corporations or Raptor Corporations, as applicable; *provided, however*, that Acquisition Transaction shall not include (x) any issuance of securities or series of issuances of securities by Raptor at any time, which is for capital-raising purposes, (y) any one or a series of transactions involving a licensing, partnership, joint or collaborative venture, co-development or co-promotion agreement or similar arrangement involving one or more of Raptor's product candidates or potential product candidates or the acquisition of assets, a business or a product line so long as such transactions, individually or in the aggregate, do not result in a Change of Control Transaction or (z) any one or a series of transactions contemplated by Part 4.2(b)(xix) of the TPT Disclosure Schedule, any Contract for which, or the consummation of which, has been approved by Raptor in writing.

Affiliate shall mean, with respect to any Person, any other Person directly or indirectly controlling, controlled by or under common control with such first Person with the meaning of the Securities Act, as amended, and the rules and regulations promulgated thereunder.

Agreement shall mean the Agreement and Plan of Merger and Reorganization to which this Exhibit A is attached, as it may be amended from time to time.

Aggregate Post-Closing Raptor Shares shall mean 69,145,047 shares, plus 350,000 shares issuable pursuant to Raptor Stock Options outstanding as of the date of this Agreement, plus any shares of Raptor Common Stock issued or issuable for any securities exercisable for or exchangeable or convertible into Raptor Common Stock issued between the date of this Agreement and the Effective Time.

Aggregate TPT Merger Shares Issuable shall mean 303,982,102 shares of TPT Common Stock.

Antitrust Laws shall mean the HSR Act and any other antitrust, unfair competition, merger or acquisition notification, or merger or acquisition control Legal Requirements under any applicable jurisdictions, whether federal, state, local or foreign.

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Balance Sheet shall mean the consolidated balance sheet included in the most recent Annual Report on Form 10-K for either TPT or Raptor, as applicable.

Benefit Plans shall mean any collective bargaining agreement or any bonus, pension, profit sharing, deferred compensation, incentive compensation, stock ownership, stock purchase, stock option, phantom stock, stock appreciation right, retirement, vacation, severance, change of control, disability, death benefit, hospitalization, medical, worker's compensation, supplementary unemployment benefits, fringe benefits, or other plan, policy, program, practice, arrangement or understanding (whether or not legally binding, whether or not terminated, and whether or not in writing), whether covering one person or more than one person, or any employment agreement providing compensation or benefits to any current or former employee, officer, director or independent contractor of any TPT Corporation or Raptor Corporation, as applicable, or any beneficiary thereof or entered into, maintained or contributed to, as the case may be, by any of the TPT Corporations or with respect to which any of them has any liability. Without limiting the generality of the foregoing, the term **Benefit Plans** includes all employee benefit plans within the meaning of Section 3(3) of ERISA, whether or not subject to ERISA.

Blue Sky Laws shall have the meaning set forth in Section 2.2(c).

Business Day shall mean a day other than a Saturday, Sunday or other day on which banks located in California are authorized or required by law to close.

Certificate of Merger shall have the meaning set forth in Section 1.3.

Change of Control Transaction means (i) a merger, consolidation, amalgamation, share exchange, business combination, issuance of securities, acquisition of securities, reorganization, recapitalization, tender offer, exchange offer or other similar transaction as a result of which either (A) Raptor's stockholders immediately prior to such transaction in the aggregate cease to own at least 50% of the voting securities of the Entity surviving or resulting from such transaction (or the ultimate parent Entity thereof) or (B) in which a Person or group (as defined in the Exchange Act and the rules promulgated thereunder) directly or indirectly acquires beneficial or record ownership of securities representing 50% or more of Raptor's capital stock or (ii) a sale, lease, exchange, transfer, license or disposition of any business or other disposition of at least 50% of the assets (on a book value or fair market value basis) or Intellectual Property of Raptor and its Subsidiaries, taken as a whole, as applicable, in a single transaction or a series of related transactions.

Closing shall have the meaning set forth in Section 1.3.

Closing Agreement shall mean a written and legally binding agreement with a Governmental Body relating to Taxes.

Closing Date shall have the meaning set forth in Section 1.3.

Code shall have the meaning set forth in the Recitals to this Agreement.

Confidentiality Agreement shall mean the Mutual Non-Disclosure Agreement dated as of April 3, 2009 between Raptor and TPT, as amended.

Consent shall mean any approval, consent, ratification, permission, waiver or authorization (including any Governmental Authorization).

Contemplated Transactions shall have the meaning set forth in Section 2.2(a).

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Contract shall mean any written, oral or other agreement, contract, subcontract, lease, understanding, instrument, note, option, warranty, purchase order, license, sublicense, insurance policy, benefit plan or legally binding commitment or undertaking of any nature.

Controlled Group Liability shall have the meaning set forth in Section 2.11(b).

Costs shall have the meaning set forth in Section 4.19(a).

DGCL shall have the meaning set forth in the Recitals to this Agreement.

Dissenting Shares shall have the meaning set forth in Section 1.10(a).

Effective Time shall have the meaning set forth in Section 1.3.

EMEA shall have the meaning set forth in Section 2.12(a).

Employment Agreements shall have the meaning set forth in the Recitals to this Agreement.

Encumbrance shall mean any lien, pledge, hypothecation, charge, mortgage, security interest, encumbrance, claim, infringement, interference, option, right of first refusal, preemptive right, community property interest or restriction of any nature (including any restriction on the voting of any security, any restriction on the transfer of any security or other asset, any restriction on the receipt of any income derived from any asset, any restriction on the use of any asset and any restriction on the possession, exercise or transfer of any other attribute of ownership of any asset).

Entity shall mean any corporation (including any non-profit corporation), general partnership, limited partnership, limited liability partnership, joint venture, estate, trust, company (including any company limited by shares, limited liability company or joint stock company), firm, society or other enterprise, association, organization or entity.

Environment shall mean soil, land surface or subsurface strata, surface waters (including navigable waters, ocean waters, streams, ponds, drainage basins, and wetlands), groundwaters, drinking water supply, stream sediments, ambient air (including indoor air), plant and animal life, and any other environmental medium or natural resource.

Environmental Authorization shall have the meaning set forth in Section 2.13(d).

Environmental Requirement shall have the meaning set forth in Section 2.13(d).

ERISA shall mean the Employee Retirement Income Security Act of 1974, as amended, and the regulations thereunder.

ERISA Affiliate shall have the meaning set forth in Section 2.11(b).

Exchange Act shall mean the Securities Exchange Act of 1934, as amended.

Exchange Agent shall have the meaning set forth in Section 1.8(a).

Exchange Fund shall have the meaning set forth in Section 1.8(a).

Exchange Ratio shall be determined as of the Effective Time and shall equal (i) the Aggregate TPT Merger Shares Issuable, divided by (ii) the Aggregate Post-Closing Raptor Shares, as such ratio may be adjusted in accordance with Section 1.5(b), including, without limitation, giving effect to the Reverse Stock Split.

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Expenses shall mean, with respect to Raptor or TPT, as applicable, the reasonable out of pocket fees and expenses (including all reasonable fees and expenses of legal counsel, accountants, financial advisors and investment bankers of such Merger Party) incurred by such Merger Party or on its behalf in connection with the authorization, preparation, negotiation, execution and performance of this Agreement and the other agreements and documents contemplated by this Agreement, the preparation, printing, filing and mailing of the Prospectus/Joint Proxy Statement and the Form S-4 Registration Statement, the filing of any required notices under applicable Antitrust Laws or other Legal Requirements and all other matters related to this Agreement, the Merger and the other transactions contemplated hereby.

FDA shall have the meaning set forth in Section 2.12(a).

Form S-4 Registration Statement shall mean the registration statement on Form S-4 to be filed with the SEC by TPT in connection with issuance of TPT Common Stock in the Merger, as said registration statement may be amended prior to the time it is declared effective by the SEC.

GAAP shall mean generally accepted accounting principles for financial reporting in the United States, applied on a basis consistent with the basis on which the financial statements referred to in Sections 2.5 and 3.5 were prepared.

Governmental Authorization shall mean any: (a) permit, license, certificate, franchise, permission, exemptions, variance, clearance, registration, qualification or authorization issued, granted, given or otherwise made available by or under the authority of any Governmental Body or pursuant to any Legal Requirement; or (b) right under any Contract with any Governmental Body.

Governmental Body shall mean any (a) nation, state, commonwealth, province, territory, county, municipality, district or other jurisdiction of any nature; (b) federal, state, local, municipal, foreign or other government; or (c) governmental or quasi-Governmental Body of any nature (including any governmental division, department, agency, commission, instrumentality, official, organization, unit, body or Entity and any court or other tribunal).

HSR Act shall mean the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended.

Intellectual Property means all apparatus, assay components, biological materials, cell lines, clinical data, chemical compositions or structures, databases and data collections, diagrams, formulae, inventions (whether or not patentable), know-how, logos, marks, methods, processes, proprietary information, protocols, schematics, specifications, software, techniques, user interfaces, URLs, web sites, works of authorship, and other forms of technology (whether or not embodied in any tangible form and including all tangible embodiments of the foregoing such as instruction manuals, laboratory notebooks, prototypes, samples, studies, and summaries).

Intellectual Property Rights means any and all now known or hereafter existing (a) rights associated with works of authorship, including exclusive exploitation rights, copyrights, moral rights, and mask works; (b) trademark and trade name rights and similar rights; (c) trade secret rights; (d) patents and industrial property rights; (e) other proprietary rights in Intellectual Property of every kind and nature, whether arising by operation of law, by contract or license, or otherwise; and (f) all registrations, applications, renewals, extensions, combinations, divisions, or reissues of the foregoing, in each case in any jurisdiction throughout the world.

Knowledge shall mean, with respect to TPT, the knowledge, after reasonable inquiry and investigation, of Evelyn Graham, Craig Johnson and Paul Schneider and with respect to Raptor, the knowledge, after reasonable inquiry and investigation, of Chris Starr, Todd C. Zankel, Ted Daley, Patrice Rioux and Kim Tsuchimoto.

Lawsuits means (a) the putative class actions consolidated under the caption of In re Axonyx Securities Litigation, Case No. 05 Civ. 2307 (TPG), filed in the United States District Court for the Southern District of

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New York and currently pending on appeal before the United States Court of Appeals for the Second Circuit under Docket No. 09-1773, including all constituent lawsuits and claims consolidated therein; (b) the purported shareholder derivative action entitled Castro v. Hausman, Case No. 05/601005, filed in the Supreme Court of the State of New York, County of New York; (c) the NASDAQ inquiry commenced following the filing of the In re Axonyx Securities Litigation actions; and (d) all other private, governmental and/or exchange inquiries, investigations, lawsuits, claims, actions and proceedings based upon or related to the matters alleged in the In re Axonyx Securities Litigation and Castro v. Hausman actions.

Legal Proceeding shall mean any action, suit, litigation, arbitration, proceeding (including any civil, criminal, administrative, investigative or appellate proceeding), hearing, inquiry, audit, examination or investigation commenced, brought, conducted or heard by or before, or otherwise involving, any court or other Governmental Body or any arbitrator or arbitration panel.

Legal Requirement shall mean any federal, state, local, municipal, foreign or other law, statute, constitution, principle of common law, resolution, ordinance, order, code, edict, decree, rule, regulation, ruling or requirement issued, enacted, adopted, promulgated, implemented or otherwise put into effect by or under the authority of any Governmental Body (or under the authority of NASDAQ).

Listing Extension shall have the meaning set forth in Section 4.13.

Materials of Environmental Concern shall have the meaning set forth in Section 2.13(d).

Merger shall have the meaning set forth in the Recitals to this Agreement.

Merger Party or **Merger Parties** shall mean Raptor and TPT.

Merger Sub shall have the meaning set forth in the Preamble.

NASDAQ shall mean the NASDAQ Stock Market LLC.

NASDAQ Listing Application shall have the meaning set forth in Section 4.13.

Net Cash shall mean, as of the Closing, without repetition, the sum of (a) (i) TPT's cash and cash equivalents, short-term investments, net and restricted cash, in each case as of such date and determined in a manner substantially consistent with the manner in which such items were determined for TPT's then most recent consolidated balance sheets filed with the SEC and (ii) all tax refunds and refunds of prepaid expenses due and owing any TPT Corporation (collectively, **Refunds**) that have not been received by any TPT Corporation as of the Closing but that have supporting written documentation by the obligor thereto evidencing the collectibility of such Refunds within a timely manner after the Closing, such supporting written documentation in form and substance reasonably acceptable to Raptor, minus (b) the sum of all liabilities and obligations of each TPT Corporation (whether absolute, accrued, contingent, determined, determinable, choate, inchoate or otherwise and regardless of when due or payable) (other than all costs and expenses which are the exclusive responsibility of Raptor as described in the proviso in Section 7.3(a)) in each case as of such date and determined in a manner substantially consistent with the manner in which such items were determined for TPT's then most recent consolidated balance sheets filed with the SEC, including for this purposes all liabilities and obligations under the Employment Agreements as though payable as of the Closing.

Occupational Safety and Health Law shall mean any Legal Requirement designed to provide safe and healthful working conditions and to reduce occupational safety and health hazards, and any program, whether governmental or private (including those promulgated or sponsored by industry associations and insurance companies), designed to provide safe and healthful working conditions.

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Off-Balance Sheet Arrangement shall mean with respect to any Person, any securitization transaction to which that Person or its Subsidiaries is party and any other transaction, agreement or other contractual arrangement to which an Entity unconsolidated with that Person is a party, under which that Person or its Subsidiaries, whether or not a party to the arrangement, has, or in the future may have: (a) any obligation under a direct or indirect guarantee or similar arrangement; (b) a retained or contingent interest in assets transferred to an unconsolidated Entity or similar arrangement; (c) derivatives to the extent that the fair value thereof is not fully reflected as a liability or asset in the financial statements; or (d) any obligation or liability, including a contingent obligation or liability, to the extent that it is not fully reflected in the financial statements (excluding the footnotes thereto) (for this purpose, obligations or liabilities that are not fully reflected in the financial statements (excluding the footnotes thereto) include, without limitation, (i) obligations that are not classified as a liability according to generally accepted accounting principles; (ii) contingent liabilities as to which, as of the date of the financial statements, it is not probable that a loss has been incurred or, if probable, is not reasonably estimable; or (iii) liabilities as to which the amount recognized in the financial statements is less than the reasonably possible maximum exposure to loss under the obligation as of the date of the financial statements, but exclude contingent liabilities arising out of litigation, arbitration or regulatory actions (not otherwise related to off-balance sheet arrangements)).

Options shall have the meaning set forth in Section 2.3(b).

Order shall mean any law, statute, constitution, principle of common law, resolution, ordinance, code, edict, decision, decree, rule, regulation, ruling or Legal Requirement issued enacted, adopted, promulgated, implemented or otherwise put into effect by or under the authority of any Governmental Body.

Organizational Documents shall have the meaning set forth in Section 2.1(b).

Part shall mean a part or section of the TPT Disclosure Schedule or the Raptor Disclosure Schedule.

Party or **Parties** shall mean Raptor and TPT.

Person shall mean any individual, Entity or Governmental Body.

Pre-Closing Period shall have the meaning set forth in Section 4.1.

Prospectus/Joint Proxy Statement shall mean the proxy statement to be sent to TPT's and Raptor's stockholders in connection with the TPT Stockholders Meeting and Raptor Stockholders Meeting.

Qualified Plans shall have the meaning set forth in Section 2.11(e).

Raptor Common Stock shall mean the Common Stock, \$0.001 par value per share, of Raptor.

Raptor Corporation shall mean Raptor or any of its Subsidiaries, and **Raptor Corporations** shall mean Raptor and all of its Subsidiaries.

Raptor Disclosure Schedule shall mean the disclosure schedule that has been prepared by Raptor in accordance with the requirements of Section 8.9 and that has been delivered by Raptor to TPT on the date of this Agreement and signed by the President of Raptor.

Raptor Financial Advisor shall mean Beal Advisors.

Raptor IP means all Intellectual Property Rights and Intellectual Property owned by or exclusively licensed to Raptor or any of its Subsidiaries.

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Raptor Material Adverse Effect shall be defined as follows: an event, violation, inaccuracy, circumstance or other matter will be deemed to have a Raptor Material Adverse Effect if such event, violation, inaccuracy, circumstance or other matter (considered together with all other matters that would constitute exceptions to the representations and warranties set forth in the Agreement but for the presence of Material Adverse Effect or other materiality qualifications, or any similar qualifications, in such representations and warranties) had or would reasonably be expected to have a material adverse effect on (a) the business, condition, capitalization, assets, liabilities, operations or financial performance of the Raptor Corporations taken as a whole, or (b) the ability of Raptor to consummate the Merger or any of the other Contemplated Transactions or to perform any of its obligations under this Agreement; *provided, however*, that none of the following shall be deemed in themselves, either alone or in combination, to constitute, and none of the following shall be taken into account in determining whether there has been or will be a Raptor Material Adverse Effect: (i) any change in the business, condition, capitalization, assets, liabilities, operations or financial performance of Raptor caused by, related to or resulting from, directly or indirectly, the Contemplated Transactions or the announcement thereof, (ii) any adverse change, effect or occurrence attributable to the United States economy as a whole or the industry in which Raptor competes, (iii) any act or threat of terrorism or war anywhere in the world, any armed hostilities or terrorist activities anywhere in the world, any threat or escalation or armed hostilities or terrorist activities anywhere in the world or any governmental or other response or reaction to any of the foregoing, (iv) any change in accounting requirements or principles or any change in applicable laws, rules or regulations or the interpretation thereof, or (v) any change in the stock price or trading volume of Raptor, in each case independent of any other event that would be deemed to have a Raptor Material Adverse Effect.

Raptor Material Contract shall mean those contracts listed in Raptor's periodic and current reports and filed with the SEC pursuant to any paragraphs of Item 601(b) of Regulation S-K of the SEC that are currently in effect or to pursuant to which Raptor has continuing obligations.

Raptor Preferred Stock shall mean the Preferred Stock, \$0.01 par value, of Raptor.

Raptor SEC Reports shall have the meaning set forth in Section 3.4.

Raptor Stock Certificate shall have the meaning set forth in Section 1.7.

Raptor Stock Options shall have the meaning set forth in Section 3.3.

Raptor Stock Option Plan shall mean Raptor's 2006 Equity Incentive Plan, as amended.

Raptor Stockholders Meeting shall have the meaning set forth in Section 4.7(a).

Raptor Triggering Event shall mean: (a) the failure of the board of directors of Raptor to recommend that Raptor's stockholders vote to approve the Merger and adopt this Agreement, or the withdrawal or modification of the Raptor Board Recommendation in a manner adverse to TPT; (b) Raptor shall have failed to include in the Prospectus/Joint Proxy Statement the Raptor Board Recommendation; (c) the board of directors of Raptor shall have failed to reaffirm, unanimously and without qualification, the Raptor Board Recommendation, or shall have failed to publicly state, unanimously and without qualification, that the board of directors of Raptor believes that the Merger is in the best interests of Raptor's stockholders, within five Business Days after TPT requests in writing that such action be taken; (d) the board of directors of Raptor shall have approved, endorsed or recommended any Acquisition Proposal; (e) Raptor or any Raptor Corporation or any Representatives of any of them shall have failed to comply with Section 4.5; (f) a tender or exchange offer relating to securities of Raptor shall have been commenced and Raptor shall not have released to its securityholders, within 10 Business Days after the commencement of such tender or exchange offer, a statement disclosing that the board of directors recommends rejection of such tender or exchange offer; or (g) an Acquisition Proposal shall have been publicly announced, and Raptor shall have failed to issue a press release announcing its opposition to such Acquisition Proposal within 10 Business Days after such Acquisition Proposal is announced.

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Registered IP means all Intellectual Property Rights that are registered or filed with or issued by any Governmental Body, including all patents, registered copyrights, registered mask works, and registered trademarks and all applications for any of the foregoing.

Release shall have the meaning set forth in Section 2.13(d).

Representatives shall mean officers, directors, employees, agents, attorneys, accountants, advisors and representatives.

Required Raptor Stockholder Vote shall have the meaning set forth in Section 3.2(a).

Required TPT Stockholder Vote shall have the meaning set forth in Section 2.2(a).

Reverse Stock Split shall have the meaning set forth in Section 4.13.

SEC shall mean the United States Securities and Exchange Commission.

Secretary of State shall have the meaning set forth in Section 1.3.

Securities Act shall mean the Securities Act of 1933, as amended.

SOX shall mean the Sarbanes-Oxley Act of 2002, as amended

Subsidiary an Entity shall be deemed to be a Subsidiary of another Person if such Person directly or indirectly owns, beneficially or of record, (a) an amount of voting securities or other interests in such Entity that is sufficient to enable such Person to elect at least a majority of the members of such Entity's board of directors or other governing body, or (b) at least 50% of the outstanding equity or financial interests of such Entity.

Superior Proposal shall mean, with respect to a Merger Party, an unsolicited, bona fide written offer made by a third Person to enter into (i) a merger, consolidation, amalgamation, share exchange, business combination, issuance of securities, acquisition of securities, reorganization, recapitalization, tender offer, exchange offer or other similar transaction as a result of which either (A) the Merger Party's stockholders immediately prior to such transaction in the aggregate cease to own at least 50% of the voting securities of the Entity surviving or resulting from such transaction (or the ultimate parent Entity thereof) or (B) in which a Person or group (as defined in the Exchange Act and the rules promulgated thereunder) directly or indirectly acquires beneficial or record ownership of securities representing 50% or more of the Merger Party's capital stock or (ii) a sale, lease, exchange transfer, license or disposition of any business or other disposition of at least 50% of the assets (on a book value or fair market value basis) of the Merger Party or its Subsidiaries, taken as a whole, in a single transaction or a series of related transactions that: (a) was not obtained or made as a direct or indirect result of a breach of (or in violation of) Section 4.5; and (b) is on terms and conditions that the board of directors of TPT or Raptor, as applicable, determines, in its good faith judgment, after obtaining and taking into account such matters that its board of directors deems relevant following consultation with its outside legal counsel and financial advisor: (x) is more favorable, from a financial point of view, to TPT's stockholders or Raptor's stockholders, as applicable, than the terms of the Merger; and (y) is reasonably capable of being consummated; provided, however, that any such offer shall not be deemed to be a Superior Proposal if (I) any financing required to consummate the transaction contemplated by such offer is not committed unless the board of directors of TPT or Raptor, as applicable, determines in good faith, that any required financing is reasonably capable of being obtained by such third Person, or (II) the consummation of such transaction is contingent on any such financing being obtained.

Surviving Corporation shall have the meaning set forth in Section 1.1.

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Tax shall mean any (a) tax (including, but not limited to, income, franchise, business, corporate, capital, excise, gross receipts, ad valorem, property, sales, use, turnover, value added, stamp and transfer taxes), deduction, withholding, levy, charge, assessment, tariff, duty, impost, deficiency or other fee of any kind imposed by any Governmental Body, (b) all interest, penalties, fines, additions to tax or additional amounts imposed by any Governmental Body in connection with any item described in clause (a) or for failure to file any Tax Return, (c) any successor or transferee liability in respect of any items described in clauses (a) and/or (b) under Treasury Regulation 1502-6 (or any similar provision of state, local or foreign law) and (d) any amounts payable under any tax sharing agreement or other contractual arrangement.

Tax Return shall mean any return (including any information return), report, statement, declaration, estimate, schedule, notice, notification, form, election, certificate or other document or information filed with or submitted to, or required to be filed with or submitted to, any Governmental Body in connection with the determination, assessment, collection or payment of any Tax or in connection with the administration, implementation or enforcement of or compliance with any Legal Requirement relating to any Tax.

Tax Ruling shall mean a written ruling of a Governmental Body with respect to Taxes.

Taxing Authority shall mean any Governmental Body charged with the responsibility for the assessment and collection of Taxes and the administration or enforcement of Tax law.

TPT IP means all Intellectual Property Rights and Intellectual Property owned by or exclusively licensed to TPT or any of its Subsidiaries.

TPT Board Recommendation shall have the meaning set forth in Section 4.7(b).

TPT Charter Amendment shall have the meaning set forth in Section 1.4(c).

TPT Common Stock shall mean the Common Stock, \$0.001 par value per share, of TPT.

TPT Corporation shall mean TPT or any of its Subsidiaries, and **TPT Corporations** shall mean TPT and all of its Subsidiaries.

TPT Corporation Contract(s) shall mean any Contract (a) to which any of the TPT Corporations is a party; (b) by which any of the TPT Corporations or any asset of any of the TPT Corporations is or may become bound or under which any of the TPT Corporations has, or may become subject to, any obligation; or (c) under which any of the TPT Corporations has or may acquire any right or interest.

TPT Disclosure Schedule shall mean the disclosure schedule that has been prepared by TPT in accordance with the requirements of Section 8.9 and that has been delivered by TPT to Raptor on the date of this Agreement and signed by the President of the TPT.

TPT Financial Advisor shall mean Merriman Curhan Ford.

TPT Material Adverse Effect shall be defined as follows: an event, violation, inaccuracy, circumstance or other matter will be deemed to have a TPT Material Adverse Effect if such event, violation, inaccuracy, circumstance or other matter (considered together with all other matters that would constitute exceptions to the representations and warranties set forth in the Agreement but for the presence of Material Adverse Effect or other materiality qualifications, or any similar qualifications, in such representations and warranties) had or would reasonably be expected to have a material adverse effect on (a) the capitalization, assets or liabilities of the TPT Corporations taken as a whole, but only to the extent such adverse effect individually, or in the aggregate, reduces such assets or increases such liabilities by an amount that exceeds \$250,000, (b) the ability of TPT or the Merger Sub to consummate the Merger or any of the other Contemplated Transactions or to perform any of their

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obligations under this Agreement, or (c) TPT's ability to vote, receive dividends with respect to or otherwise exercise ownership rights with respect to the stock of the Surviving Corporation; *provided, however*, that none of the following shall be deemed in themselves, either alone or in combination, to constitute, and none of the following shall be taken into account in determining whether there has been or will be a TPT Material Adverse Effect: (i) any change in the capitalization or assets of TPT and its Subsidiaries taken as a whole caused by, related to or resulting from, directly or indirectly, the Contemplated Transactions or the announcement thereof, (ii) any adverse change, effect or occurrence attributable to the United States economy as a whole or the industries in which TPT or any Subsidiary of TPT competes, (iii) any act or threat of terrorism or war anywhere in the world, any armed hostilities or terrorist activities anywhere in the world, any threat or escalation of armed hostilities or terrorist activities anywhere in the world or any governmental or other response or reaction to any of the foregoing, or (iv) any change in accounting requirements or principles or any change in applicable laws, rules or regulations or the interpretation thereof, (v) the taking of any action by TPT or its Representatives related to the cancellation of the currently adjourned TPT stockholders' meeting related to a proposed plan of dissolution for TPT and (vi) any change in the stock price or trading volume of TPT, in each case independent of any other event that would be deemed to have a TPT Material Adverse Effect.

TPT Material Contract shall mean any contract listed in Section 2.16 of this Agreement.

TPT Preferred Stock shall mean the Preferred Stock, \$0.001 par value per share, of the TPT.

TPT Restricted Stock Units shall have the meaning set forth in Section 2.3.

TPT Rights Agreement shall have the meaning set forth in Section 2.3.

TPT SEC Reports shall have the meaning set forth in Section 2.4(a).

TPT Stock Options shall have the meaning set forth in Section 2.3.

TPT Stock Plan shall mean TPT's 2006 Equity Incentive Plan.

TPT Stockholders' Meeting shall have the meaning set forth in Section 4.7(a).

TPT Triggering Event shall mean: (a) the failure of the board of directors of TPT to recommend that TPT's stockholders vote to approve the issuance of the TPT Common Stock in the Merger, the filing of the TPT Charter Amendment and the election of the persons identified on Part 4.17 of the TPT Disclosure Schedule to the TPT board of directors immediately after the Effective Time, or the withdrawal or modification of the TPT Board Recommendation in a manner adverse to Raptor; (b) TPT shall have failed to include in the Prospectus/Joint Proxy Statement the TPT Board Recommendation; (c) the board of directors of TPT shall have failed to reaffirm, unanimously and without qualification, the TPT Board Recommendation, or shall have failed to publicly state, unanimously and without qualification, that the board of directors of TPT believes that the Merger is in the best interests of TPT's stockholders, within five Business Days after Raptor requests in writing that such action be taken; (d) the board of directors of TPT shall have approved, endorsed or recommended any Acquisition Proposal; (e) TPT or any of the TPT Corporations or any Representatives of any of them shall have failed to comply with Section 4.5; (f) a tender or exchange offer relating to securities of TPT shall have been commenced and TPT shall not have released to its securityholders, within 10 Business Days after the commencement of such tender or exchange offer, a statement disclosing that the board of directors recommends rejection of such tender or exchange offer; or (g) an Acquisition Proposal shall have been publicly announced, and TPT shall have failed to issue a press release announcing its opposition to such Acquisition Proposal within 10 Business Days after such Acquisition Proposal is announced.

TPT Warrants shall have the meaning set forth in Section 2.3.

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Trade Secrets means all product specifications, data, know-how, formulae, compositions, processes, designs, sketches, photographs, graphs, drawings, samples, inventions and ideas, research and development, manufacturing or distribution methods and processes, customer lists, current and anticipated customer requirements, price lists, market studies, business plans, computer software and programs (including object code), computer software and database technologies, systems, structures and architectures (and related processes, formulae, composition, improvements, devices, know-how, inventions, discoveries, concepts, ideas, designs, methods and information), and any other information, however documented, that is a trade secret within the meaning of the applicable trade-secret protection law.

Voting Agreements shall have the meaning set forth in the Recitals to this Agreement.

EXHIBITS/Disclosure Schedules*

EXHIBIT A DEFINED TERMS

EXHIBIT B EVELYN GRAHAM EMPLOYMENT AGREEMENT

EXHIBIT C CRAIG JOHNSON EMPLOYMENT AGREEMENT

EXHIBIT D PAUL SCHNEIDER EMPLOYMENT AGREEMENT

EXHIBIT E RELEASE AND WAIVER OF CLAIMS

TPT Disclosure Schedules and the Raptor Disclosure Schedules are arranged in separate Parts corresponding to the numbered and lettered sections contained in Section 2 and Section 3, respectively.

** Exhibits and Schedules have been omitted pursuant to Item 601(b)(2) of Regulation S-K. Raptor and TPT undertake to furnish supplemental copies of any of the omitted exhibits and schedules upon request by the SEC.*

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Annex B

GENERAL CORPORATION LAW OF THE STATE OF DELAWARE

§ 262 APPRAISAL RIGHTS.

(a) Any stockholder of a corporation of this State who holds shares of stock on the date of the making of a demand pursuant to subsection (d) of this section with respect to such shares, who continuously holds such shares through the effective date of the merger or consolidation, who has otherwise complied with subsection (d) of this section and who has neither voted in favor of the merger or consolidation nor consented thereto in writing pursuant to § 228 of this title shall be entitled to an appraisal by the Court of Chancery of the fair value of the stockholder's shares of stock under the circumstances described in subsections (b) and (c) of this section. As used in this section, the word "stockholder" means a holder of record of stock in a stock corporation and also a member of record of a nonstock corporation; the words "stock" and "share" mean and include what is ordinarily meant by those words and also membership or membership interest of a member of a nonstock corporation; and the words "depository receipt" mean a receipt or other instrument issued by a depository representing an interest in one or more shares, or fractions thereof, solely of stock of a corporation, which stock is deposited with the depository.

(b) Appraisal rights shall be available for the shares of any class or series of stock of a constituent corporation in a merger or consolidation to be effected pursuant to § 251 (other than a merger effected pursuant to § 251(g) of this title), § 252, § 254, § 257, § 258, § 263 or § 264 of this title:

(1) Provided, however, that no appraisal rights under this section shall be available for the shares of any class or series of stock, which stock, or depository receipts in respect thereof, at the record date fixed to determine the stockholders entitled to receive notice of the meeting of stockholders to act upon the agreement of merger or consolidation, were either (i) listed on a national securities exchange or (ii) held of record by more than 2,000 holders; and further provided that no appraisal rights shall be available for any shares of stock of the constituent corporation surviving a merger if the merger did not require for its approval the vote of the stockholders of the surviving corporation as provided in § 251(f) of this title.

(2) Notwithstanding paragraph (1) of this subsection, appraisal rights under this section shall be available for the shares of any class or series of stock of a constituent corporation if the holders thereof are required by the terms of an agreement of merger or consolidation pursuant to §§ 251, 252, 254, 257, 258, 263 and 264 of this title to accept for such stock anything except:

- a. Shares of stock of the corporation surviving or resulting from such merger or consolidation, or depository receipts in respect thereof;
- b. Shares of stock of any other corporation, or depository receipts in respect thereof, which shares of stock (or depository receipts in respect thereof) or depository receipts at the effective date of the merger or consolidation will be either listed on a national securities exchange or held of record by more than 2,000 holders;
- c. Cash in lieu of fractional shares or fractional depository receipts described in the foregoing subparagraphs a. and b. of this paragraph; or
- d. Any combination of the shares of stock, depository receipts and cash in lieu of fractional shares or fractional depository receipts described in the foregoing subparagraphs a., b. and c. of this paragraph.

(3) In the event all of the stock of a subsidiary Delaware corporation party to a merger effected under § 253 of this title is not owned by the parent corporation immediately prior to the merger, appraisal rights shall be available for the shares of the subsidiary Delaware corporation.

(c) Any corporation may provide in its certificate of incorporation that appraisal rights under this section shall be available for the shares of any class or series of its stock as a result of an amendment to its certificate of

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incorporation, any merger or consolidation in which the corporation is a constituent corporation or the sale of all or substantially all of the assets of the corporation. If the certificate of incorporation contains such a provision, the procedures of this section, including those set forth in subsections (d) and (e) of this section, shall apply as nearly as is practicable.

(d) Appraisal rights shall be perfected as follows:

(1) If a proposed merger or consolidation for which appraisal rights are provided under this section is to be submitted for approval at a meeting of stockholders, the corporation, not less than 20 days prior to the meeting, shall notify each of its stockholders who was such on the record date for notice of such meeting with respect to shares for which appraisal rights are available pursuant to subsection (b) or (c) hereof that appraisal rights are available for any or all of the shares of the constituent corporations, and shall include in such notice a copy of this section. Each stockholder electing to demand the appraisal of such stockholder's shares shall deliver to the corporation, before the taking of the vote on the merger or consolidation, a written demand for appraisal of such stockholder's shares. Such demand will be sufficient if it reasonably informs the corporation of the identity of the stockholder and that the stockholder intends thereby to demand the appraisal of such stockholder's shares. A proxy or vote against the merger or consolidation shall not constitute such a demand. A stockholder electing to take such action must do so by a separate written demand as herein provided. Within 10 days after the effective date of such merger or consolidation, the surviving or resulting corporation shall notify each stockholder of each constituent corporation who has complied with this subsection and has not voted in favor of or consented to the merger or consolidation of the date that the merger or consolidation has become effective; or

(2) If the merger or consolidation was approved pursuant to § 228 or § 253 of this title, then either a constituent corporation before the effective date of the merger or consolidation or the surviving or resulting corporation within 10 days thereafter shall notify each of the holders of any class or series of stock of such constituent corporation who are entitled to appraisal rights of the approval of the merger or consolidation and that appraisal rights are available for any or all shares of such class or series of stock of such constituent corporation, and shall include in such notice a copy of this section. Such notice may, and, if given on or after the effective date of the merger or consolidation, shall, also notify such stockholders of the effective date of the merger or consolidation. Any stockholder entitled to appraisal rights may, within 20 days after the date of mailing of such notice, demand in writing from the surviving or resulting corporation the appraisal of such holder's shares. Such demand will be sufficient if it reasonably informs the corporation of the identity of the stockholder and that the stockholder intends thereby to demand the appraisal of such holder's shares. If such notice did not notify stockholders of the effective date of the merger or consolidation, either (i) each such constituent corporation shall send a second notice before the effective date of the merger or consolidation notifying each of the holders of any class or series of stock of such constituent corporation that are entitled to appraisal rights of the effective date of the merger or consolidation or (ii) the surviving or resulting corporation shall send such a second notice to all such holders on or within 10 days after such effective date; provided, however, that if such second notice is sent more than 20 days following the sending of the first notice, such second notice need only be sent to each stockholder who is entitled to appraisal rights and who has demanded appraisal of such holder's shares in accordance with this subsection. An affidavit of the secretary or assistant secretary or of the transfer agent of the corporation that is required to give either notice that such notice has been given shall, in the absence of fraud, be prima facie evidence of the facts stated therein. For purposes of determining the stockholders entitled to receive either notice, each constituent corporation may fix, in advance, a record date that shall be not more than 10 days prior to the date the notice is given, provided, that if the notice is given on or after the effective date of the merger or consolidation, the record date shall be such effective date. If no record date is fixed and the notice is given prior to the effective date, the record date shall be the close of business on the day next preceding the day on which the notice is given.

(e) Within 120 days after the effective date of the merger or consolidation, the surviving or resulting corporation or any stockholder who has complied with subsections (a) and (d) of this section hereof and who is

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otherwise entitled to appraisal rights, may commence an appraisal proceeding by filing a petition in the Court of Chancery demanding a determination of the value of the stock of all such stockholders. Notwithstanding the foregoing, at any time within 60 days after the effective date of the merger or consolidation, any stockholder who has not commenced an appraisal proceeding or joined that proceeding as a named party shall have the right to withdraw such stockholder's demand for appraisal and to accept the terms offered upon the merger or consolidation. Within 120 days after the effective date of the merger or consolidation, any stockholder who has complied with the requirements of subsections (a) and (d) of this section hereof, upon written request, shall be entitled to receive from the corporation surviving the merger or resulting from the consolidation a statement setting forth the aggregate number of shares not voted in favor of the merger or consolidation and with respect to which demands for appraisal have been received and the aggregate number of holders of such shares. Such written statement shall be mailed to the stockholder within 10 days after such stockholder's written request for such a statement is received by the surviving or resulting corporation or within 10 days after expiration of the period for delivery of demands for appraisal under subsection (d) of this section hereof, whichever is later. Notwithstanding subsection (a) of this section, a person who is the beneficial owner of shares of such stock held either in a voting trust or by a nominee on behalf of such person may, in such person's own name, file a petition or request from the corporation the statement described in this subsection.

(f) Upon the filing of any such petition by a stockholder, service of a copy thereof shall be made upon the surviving or resulting corporation, which shall within 20 days after such service file in the office of the Register in Chancery in which the petition was filed a duly verified list containing the names and addresses of all stockholders who have demanded payment for their shares and with whom agreements as to the value of their shares have not been reached by the surviving or resulting corporation. If the petition shall be filed by the surviving or resulting corporation, the petition shall be accompanied by such a duly verified list. The Register in Chancery, if so ordered by the Court, shall give notice of the time and place fixed for the hearing of such petition by registered or certified mail to the surviving or resulting corporation and to the stockholders shown on the list at the addresses therein stated. Such notice shall also be given by 1 or more publications at least 1 week before the day of the hearing, in a newspaper of general circulation published in the City of Wilmington, Delaware or such publication as the Court deems advisable. The forms of the notices by mail and by publication shall be approved by the Court, and the costs thereof shall be borne by the surviving or resulting corporation.

(g) At the hearing on such petition, the Court shall determine the stockholders who have complied with this section and who have become entitled to appraisal rights. The Court may require the stockholders who have demanded an appraisal for their shares and who hold stock represented by certificates to submit their certificates of stock to the Register in Chancery for notation thereon of the pendency of the appraisal proceedings; and if any stockholder fails to comply with such direction, the Court may dismiss the proceedings as to such stockholder.

(h) After the Court determines the stockholders entitled to an appraisal, the appraisal proceeding shall be conducted in accordance with the rules of the Court of Chancery, including any rules specifically governing appraisal proceedings. Through such proceeding the Court shall determine the fair value of the shares exclusive of any element of value arising from the accomplishment or expectation of the merger or consolidation, together with interest, if any, to be paid upon the amount determined to be the fair value. In determining such fair value, the Court shall take into account all relevant factors. Unless the Court in its discretion determines otherwise for good cause shown, interest from the effective date of the merger through the date of payment of the judgment shall be compounded quarterly and shall accrue at 5% over the Federal Reserve discount rate (including any surcharge) as established from time to time during the period between the effective date of the merger and the date of payment of the judgment. Upon application by the surviving or resulting corporation or by any stockholder entitled to participate in the appraisal proceeding, the Court may, in its discretion, proceed to trial upon the appraisal prior to the final determination of the stockholders entitled to an appraisal. Any stockholder whose name appears on the list filed by the surviving or resulting corporation pursuant to subsection (f) of this section and who has submitted such stockholder's certificates of stock to the Register in Chancery, if such is required, may participate fully in all proceedings until it is finally determined that such stockholder is not entitled to appraisal rights under this section.

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(i) The Court shall direct the payment of the fair value of the shares, together with interest, if any, by the surviving or resulting corporation to the stockholders entitled thereto. Payment shall be so made to each such stockholder, in the case of holders of uncertificated stock forthwith, and the case of holders of shares represented by certificates upon the surrender to the corporation of the certificates representing such stock. The Court's decree may be enforced as other decrees in the Court of Chancery may be enforced, whether such surviving or resulting corporation be a corporation of this State or of any state.

(j) The costs of the proceeding may be determined by the Court and taxed upon the parties as the Court deems equitable in the circumstances. Upon application of a stockholder, the Court may order all or a portion of the expenses incurred by any stockholder in connection with the appraisal proceeding, including, without limitation, reasonable attorney's fees and the fees and expenses of experts, to be charged pro rata against the value of all the shares entitled to an appraisal.

(k) From and after the effective date of the merger or consolidation, no stockholder who has demanded appraisal rights as provided in subsection (d) of this section shall be entitled to vote such stock for any purpose or to receive payment of dividends or other distributions on the stock (except dividends or other distributions payable to stockholders of record at a date which is prior to the effective date of the merger or consolidation); provided, however, that if no petition for an appraisal shall be filed within the time provided in subsection (e) of this section, or if such stockholder shall deliver to the surviving or resulting corporation a written withdrawal of such stockholder's demand for an appraisal and an acceptance of the merger or consolidation, either within 60 days after the effective date of the merger or consolidation as provided in subsection (e) of this section or thereafter with the written approval of the corporation, then the right of such stockholder to an appraisal shall cease. Notwithstanding the foregoing, no appraisal proceeding in the Court of Chancery shall be dismissed as to any stockholder without the approval of the Court, and such approval may be conditioned upon such terms as the Court deems just; provided, however that this provision shall not affect the right of any stockholder who has not commenced an appraisal proceeding or joined that proceeding as a named party to withdraw such stockholder's demand for appraisal and to accept the terms offered upon the merger or consolidation within 60 days after the effective date of the merger or consolidation, as set forth in subsection (e) of this section.

(l) The shares of the surviving or resulting corporation to which the shares of such objecting stockholders would have been converted had they assented to the merger or consolidation shall have the status of authorized and unissued shares of the surviving or resulting corporation.

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Annex C
CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
TORREYPINES THERAPEUTICS, INC.

Pursuant to Section 242 of the General Corporation Law of the State of Delaware, TorreyPines Therapeutics, Inc., a corporation organized and existing under the laws of the State of Delaware (the "*Corporation*"), does hereby certify as follows:

The name of the Corporation is TorreyPines Therapeutics, Inc. and the Corporation's original Certificate of Incorporation was filed with the Secretary of State of the State of Delaware on October 3, 2006. The Board of Directors of the Corporation has duly adopted a resolution pursuant to Section 242 of the General Corporation Law of the State of Delaware setting forth a proposed amendment to the Certificate of Incorporation of the Corporation and declaring said amendment to be advisable. The requisite stockholders of the Corporation have duly approved said proposed amendment in accordance with Section 242 of the General Corporation Law of the State of Delaware. The amendment amends the Certificate of Incorporation of the Corporation as follows:

1. Article I is hereby deleted in its entirety and replaced with the following:

The name of the corporation is RAPTOR PHARMACEUTICAL CORP. (the "*Corporation*").

2. Section (A)(1.) of Article IV is hereby amended by adding a second and third paragraph which read as follows:

Effective at 5:00 p.m. Eastern time, on the date of filing of this Certificate of Amendment of Certificate of Incorporation with the Secretary of State of the State of Delaware (the "*Effective Time*"), the shares of Common Stock issued and outstanding immediately prior to the Effective Time and the shares of Common Stock issued and held in the treasury of the Corporation immediately prior to the Effective Time shall automatically be reclassified into a smaller number of shares such that each [ten][eleven][twelve][thirteen][fourteen][fifteen][seventeen][twenty][twenty-five][thirty][thirty-five][forty][forty-five][fifty][fifty-five][sixty][seventy]¹ shares of the Corporation's issued and outstanding Common Stock immediately prior to the Effective Time are reclassified into one validly issued, fully paid and nonassessable share of Common Stock, without any further action by the Corporation or the holder thereof, subject to the treatment of fractional share interests as described below. Notwithstanding the immediately preceding sentence, no fractional shares shall be issued and, in lieu thereof, upon surrender after the Effective Time of a certificate which formerly represented shares of Common Stock that were issued and outstanding immediately prior to the Effective Time, any person who would otherwise be entitled to a fractional share of Common Stock as a result of the reclassification, following the Effective Time (after taking into account all fractional shares of Common Stock otherwise issuable to such holder), shall be entitled to receive a cash payment equal to the fraction to which such holder would otherwise be entitled multiplied by the closing price of a share of Common Stock on the NASDAQ Global Market or NASDAQ Capital Market, as applicable, on the date immediately preceding the date of filing of this Certificate of Amendment of Certificate of Incorporation with the Secretary of State of the State of Delaware.

Each stock certificate that, immediately prior to the Effective Time, represented shares of Common Stock that were issued and outstanding immediately prior to the Effective Time shall, from and after the Effective Time, automatically and without the necessity of presenting the same for exchange, represent that number of whole shares of Common Stock after the Effective Time into which the shares of Common Stock formerly represented by such certificate shall have been reclassified (as well as the right to receive cash in lieu of fractional shares of Common Stock after the Effective Time), provided, however, that each person of record holding a certificate that represented shares of Common Stock that were issued and outstanding immediately prior to the Effective Time shall receive, upon surrender of such certificate, a new certificate evidencing and representing the number of whole shares of Common Stock after the Effective Time into which the shares of Common Stock formerly represented by such certificate shall have been reclassified.

IN WITNESS WHEREOF, the Corporation has caused this Certificate of Amendment of Certificate of Incorporation to be signed by its [], this [] day of [], 2009.

Name:
Title:

- ¹ Shall be one of any of 10, 11, 12, 13, 14, 15, 17, 20, 25, 30, 35, 40, 45, 50, 55, 60 or 70, the exact number to be determined by the board of directors of the Corporation prior to the Effective Time and publicly announced by the Corporation.

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TORREYPINES THERAPEUTICS, INC.

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

ANNUAL MEETING OF STOCKHOLDERS

SEPTEMBER 28, 2009

The stockholder(s) hereby appoint(s) Evelyn Graham and Craig Johnson as proxies with the power to appoint a substitute, and hereby authorize them to represent and to vote, as designated on the reverse side of this ballot, all of the shares of Common Stock of TorreyPines Therapeutics, Inc. that the stockholder(s) is/are entitled to vote at the Annual Meeting of Stockholders to be held at 10:00 a.m., Pacific Time on September 28, 2009 at the offices of Cooley Godward Kronish LLP at 4401 Eastgate Mall, San Diego, CA 92121, and any adjournment or postponement thereof.

THIS PROXY, WHEN PROPERLY EXECUTED, WILL BE VOTED AS DIRECTED BY THE STOCKHOLDER. IF NO SUCH DIRECTIONS ARE MADE, THIS PROXY WILL BE VOTED FOR ALL PROPOSALS AND IN THE DISCRETION OF THE PROXY HOLDERS ON SUCH OTHER BUSINESS AS MAY COME BEFORE THE ANNUAL MEETING AND ANY ADJOURNMENT OR POSTPONEMENT THEREOF.

PLEASE MARK, SIGN, DATE AND RETURN THIS PROXY CARD PROMPTLY USING THE ENCLOSED REPLY ENVELOPE.

CONTINUED AND TO BE SIGNED ON REVERSE SIDE

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TORREYPINES THERAPEUTICS, INC.

P.O. BOX 231386

ENCINITAS, CA 92023-1386

VOTE BY INTERNET www.proxyvote.com

Use the Internet to transmit your voting instructions and for electronic delivery of information up until 11:59 P.M. Eastern Time September 27, 2009. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

ELECTRONIC DELIVERY OF PROXY MATERIALS

If you would like to reduce the costs incurred by TorreyPines Therapeutics, Inc. in mailing proxy materials, you can consent to receiving all future proxy statements, proxy cards and annual reports electronically via e-mail or the Internet. To sign up for electronic delivery, please follow the instructions above to vote using the Internet and, when prompted, indicate that you agree to receive or access proxy materials electronically in future years.

VOTE BY PHONE 1-800-690-6903

Use any touch-tone telephone to transmit your voting instructions up until 11:59 P.M. Eastern Time September 27, 2009. Have your proxy card in hand when you call and then follow the instructions.

VOTE BY MAIL

Mark, sign and date your proxy card and return it in the postage-paid envelope we have provided or return it to Vote Processing, c/o Broadridge, 51 Mercedes Way, Edgewood, NY 11717.

TO VOTE, MARK BLOCKS BELOW IN BLUE OR BLACK INK AS FOLLOWS:

KEEP THIS PORTION FOR YOUR RECORDS
DETACH AND RETURN THIS PORTION ONLY

THIS PROXY CARD IS VALID ONLY WHEN SIGNED AND DATED.

TORREYPINES THERAPEUTICS, INC.

THE BOARD OF DIRECTORS RECOMMENDS YOU VOTE FOR THE FOLLOWING PROPOSALS

| Vote on Proposal | For | Against | Abstain |
|--|------------|----------------|----------------|
| 1. To consider and vote upon a proposal to approve the issuance of TorreyPines common stock and the resulting change in control of TorreyPines pursuant to that certain Agreement and Plan of Merger and Reorganization, dated as of July 27, 2009, by and among TorreyPines, ECP Acquisition, Inc. and Raptor, a copy of which is attached as <i>Amex A</i> to the accompanying joint proxy statement/prospectus. | .. | .. | .. |
| 2. To approve an amendment to TorreyPines certificate of incorporation effecting the reverse stock split at one of seventeen reverse split ratios: 1-for-10, 1-for-11, 1-for-12, 1-for-13, 1-for-14, 1-for-15, 1-for-17, 1-for-20, 1-for-25, 1-for-30, 1-for-35, 1-for-40, 1-for-45, 1-for-50, 1-for-55, 1-for-60 or 1-for-70, as described in the accompanying joint proxy statement/prospectus. | .. | .. | .. |
| 3. To approve an amendment to TorreyPines certificate of incorporation to change the corporate name of TorreyPines from TorreyPines Therapeutics, Inc. to Raptor Pharmaceutical Corp. | .. | .. | .. |

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4. To elect the four directors nominated by the TorreyPines board of directors and named herein; provided, however, that if the merger is consummated, it is anticipated that the TorreyPines board of directors will consist of the four people identified in the accompanying joint proxy statement/prospectus.

NOMINEES

01) Peter Davis, Ph.D.

02) Steven H. Ferris, Ph.D.

03) Evelyn Graham

04) Steven Ratoff

“ FOR ALL “ WITHHOLD FOR ALL “ FOR ALL EXCEPT

To withhold authority to vote for any individual nominee(s), market below For All Except and write the number(s) of the nominee(s) on the line below

5. To consider and vote upon an adjournment of the TorreyPines annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of TorreyPines Proposal Nos. 1, 2 and 3.

NOTE: Such other business as may properly come before the meeting or any adjournment thereof

The shares represented by this proxy when properly executed will be voted in the manner directed herein by the undersigned Stockholder(s). If no direction is made, this proxy will be voted FOR Proposals 1, 2, 3, 5 and 6 and FOR the election of directors. If any other matters properly come before the meeting, or if cumulative voting is required, the person named in this proxy will vote in their discretion.

Signature [PLEASE SIGN WITHIN BOX]

Date

Signature (Joint Owners)

Date

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RAPTOR PHARMACEUTICALS CORP.

ANNUAL MEETING PROXY CARD

THIS PROXY IS SOLICITED BY THE BOARD OF DIRECTORS OF RAPTOR PHARMACEUTICALS, CORP. FOR THE ANNUAL MEETING OF STOCKHOLDERS TO BE HELD ON SEPTEMBER 28, 2009

The undersigned, having read the Notice of Annual Meeting of Stockholders and the Joint Proxy Statement/Prospectus dated August 28, 2009, receipt of which are hereby acknowledged, hereby appoints Christopher M. Starr, Ph.D., and Kim R. Tsuchimoto and each of them, with power to act without the other and with power of substitution, as proxies and attorneys-in-fact and hereby authorizes them to represent and vote as provided on the other side, all the shares of Raptor Pharmaceuticals Corp. ("Raptor") common stock that the undersigned is entitled to vote at Raptor's Annual Meeting of Stockholders on September 28, 2009, at 10:00 a.m. (Pacific) at Raptor's corporate offices at 9 Commercial Blvd., Suite 200, Novato, CA 94949, and at any continuation, adjournment or postponement thereof.

YOU ARE ENCOURAGED TO SPECIFY YOUR CHOICE BY MARKING THE APPROPRIATE BOX. THE PROXY, WHEN PROPERLY EXECUTED, WILL BE VOTED AS DIRECTED ON THE REVERSE SIDE. IF NO DIRECTION IS MADE, THIS PROXY WILL BE VOTED **FOR** THE ADOPTION OF THE MERGER AGREEMENT, **FOR** THE ELECTION OF THE NAMED NOMINEES FOR DIRECTOR, **FOR** THE RATIFICATION OF RAPTOR'S INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM, **FOR** THE ADJOURNMENT OF THE ANNUAL MEETING, IF NECESSARY, TO SOLICIT ADDITIONAL PROXIES IF THERE ARE NOT SUFFICIENT VOTES IN FAVOR OF THE ADOPTION OF THE MERGER AGREEMENT, AND, WITH RESPECT TO ANY OTHER MATTERS PROPERLY BROUGHT BEFORE THE ANNUAL MEETING, IN ACCORDANCE WITH THE JUDGMENT OF YOUR PROXIES.

All previous proxies given by the undersigned to vote at the Annual Meeting or at any adjournment or postponement thereof are hereby revoked.

YOUR VOTE IS IMPORTANT. PLEASE COMPLETE YOUR VOTING SELECTION AND SIGN, DATE AND MAIL YOUR PROXY CARD BACK IN THE ENCLOSED ENVELOPE AS SOON AS POSSIBLE!

(Continued and to be signed and dated on reverse side)

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Shareholder Name _____

Proxy **RAPTOR PHARMACEUTICALS CORP.**

A. Proposals The Board of Directors unanimously recommends a vote **FOR** Proposal 1, **FOR** all the nominees listed in Proposal 2, **FOR** Proposal 3 and **FOR** Proposal 4.

| | | | |
|---|------------|----------------|----------------|
| Proposal No. 1 To adopt that certain Agreement and Plan of Merger and Reorganization, dated as of July 27, 2009, by and among TorreyPines Therapeutics, Inc., ECP Acquisition, Inc. and Raptor Pharmaceuticals Corp. | FOR | AGAINST | ABSTAIN |
| | .. | .. | .. |
| Proposal No. 2 Election of Directors | | | |

The Board of Directors recommends a vote **FOR** the listed nominees.

| | | |
|-------------------------------------|------------|-----------------|
| | FOR | WITHHOLD |
| 01 Christopher M. Starr, Ph.D. | .. | .. |
| 02 Raymond W. Anderson | .. | .. |
| 03 Erich Sager | .. | .. |
| 04 Richard L. Franklin, M.D., Ph.D. | .. | .. |

To withhold authority to vote for an individual nominee or nominees, print the name of such nominee(s) on the lines provided.

| | | | |
|---|------------|----------------|----------------|
| Proposal No. 3 To ratify the appointment by the audit committee of the Board of Directors of Burr, Pilger & Mayer, LLP as Raptor's independent registered public accounting firm for the | FOR | AGAINST | ABSTAIN |
|---|------------|----------------|----------------|

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fiscal year ending August 31, 2009.

| | | | | |
|-----------------------|---|------------|----------------|----------------|
| Proposal No. 4 | To approve any motion to adjourn Raptor Pharmaceuticals Corp. s annual meeting, if necessary, to solicit additional proxies if there are not sufficient votes in favor of adoption of the Agreement and Plan of Merger and Reorganization. | FOR | AGAINST | ABSTAIN |
| | | .. | .. | .. |

IN THEIR DISCRETION THE PROXIES ARE AUTHORIZED AND EMPOWERED TO VOTE UPON OTHER MATTERS THAT MAY PROPERLY COME BEFORE THE ANNUAL MEETING AND ALL CONTINUATIONS, ADJOURNMENTS OR POSTPONEMENTS THEREOF.

B. Non-Voting Items

Change of Address Please print new address below:

C. Authorized Signatures This section must be completed for your vote to be counted. Date and Sign Below

Please sign exactly as name(s) appears hereon. Joint owners should each sign. When signing as attorney, executor, administrator, corporate officer, trustee, guardian, or custodian, please give full title.

Title: _____

Signature 1 Please keep signature within the box

Signature 2 Please keep signature within the box

Date (mm/dd/yyyy)

____/____/____