

IDERA PHARMACEUTICALS, INC.  
Form SC 13D/A  
April 16, 2008

Schedule 13D/A  
CUSIP NO.  
45168K306

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

SCHEDULE 13D/A  
(Rule 13d-101)

Information to be Included in Statements Filed Pursuant to Rule 13d-1(a) and  
Amendments Thereto Filed Pursuant to Rule 13d-2(a)

Under the Securities Exchange Act of 1934  
(Amendment No. 4)\*

Idera Pharmaceuticals, Inc.  
(Name of issuer)

Common Stock  
(Title of class of securities)

45168K306  
(CUSIP Number)

Youssef El-Zein  
Starco Center  
Omar Daouk Street  
Bloc B – Third Floor  
Beirut Central District  
Beirut 2012-3313 Lebanon

(Name, address and telephone number of person authorized to receive notices and communications)

April 04, 2008  
(Date of event which requires filing of this statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13d-1(g), check the following box.

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Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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1 NAMES OF REPORTING PERSONS/I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Youssef El-Zein

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

Not applicable.

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

France

|  |    |                          |
|--|----|--------------------------|
| NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON<br>WITH | 7  | SOLE VOTING POWER        |
|  |    | 282,918                  |
|  | 8  | SHARED VOTING POWER      |
|  |    | 1,097,622                |
|  | 9  | SOLE DISPOSITIVE POWER   |
|  |    | 282,918                  |
|  | 10 | SHARED DISPOSITIVE POWER |
|  |    | 1,097,622                |

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,380,540

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN  
SHARES

Not applicable

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

6.4%

14 TYPE OF REPORTING PERSON

IN

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1 NAMES OF REPORTING PERSONS  
 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Pillar Investment Limited

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  
 (a)   
 (b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

Not applicable

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR  
 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Isle of Man

|  |    |                          |
|--|----|--------------------------|
| NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON<br>WITH | 7  | SOLE VOTING POWER        |
|  |    | 186,042                  |
|  | 8  | SHARED VOTING POWER      |
|  |    | 911,580                  |
|  | 9  | SOLE DISPOSITIVE POWER   |
|  |    | 186,042                  |
|  | 10 | SHARED DISPOSITIVE POWER |
|  |    | 911,580                  |

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,097,622

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN  
SHARES

Not applicable

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

5.1%

14 TYPE OF REPORTING PERSON

OO

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1 NAMES OF REPORTING PERSONS  
 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Optima Life Sciences Limited

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  
 (a)   
 (b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

Not applicable

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR  
 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Isle of Man

|  |    |                          |
|--|----|--------------------------|
| NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON<br>WITH | 7  | SOLE VOTING POWER        |
|  |    | 911,580                  |
|  | 8  | SHARED VOTING POWER      |
|  |    | 0                        |
|  | 9  | SOLE DISPOSITIVE POWER   |
|  |    | 911,580                  |
|  | 10 | SHARED DISPOSITIVE POWER |
|  |    | 0                        |

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

911,580

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN  
SHARES

Not applicable

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

4.2%

14 TYPE OF REPORTING PERSON

OO

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Introductory note:

This Amendment No. 4 (“Amendment”) amends the original Schedule 13D filed on behalf of Youssef El-Zein, Pillar Investment Limited, a limited company incorporated under the laws of the Isle of Man (“Pillar”), and Optima Life Sciences Limited, a limited company incorporated under the laws of the Isle of Man (“Optima” and, together with Youssef El-Zein and Pillar, the “Reporting Parties”) with the Securities and Exchange Commission (the “Commission”) on September 8, 2003, as amended by Amendment No. 1 filed by the Reporting Parties on October 8, 2004, Amendment No. 2 filed by the Reporting Parties on June 30, 2005, and Amendment No. 3 filed by the Reporting Parties on March 17, 2008 (the Schedule 13D, as previously amended, is referred to herein as the “Prior Filings”). The Amendment relates to the securities of Idera Pharmaceuticals, Inc. (the “Issuer”) beneficially owned by the Reporting Parties.

In accordance with the provisions of General Instruction C to Schedule 13D, information required by Item 2 of Schedule 13D with respect to the directors of Pillar and Optima is listed on Schedule 1 hereto and is incorporated by reference herein. Mr. El-Zein is a director of the Issuer, Pillar and Optima. Pillar is the manager and investment advisor of Optima and holds all of the voting shares of Optima. Pillar and Optima have no executive officers. Mr. Bilal Sidani serves with Mr. El-Zein as a director of Pillar, and Mr. Sidani, Mr. Stockton B. Birthisel and Mr. John Sturgeon serve with Mr. El-Zein as directors of Optima. Messrs. Sidani, Birthisel and Sturgeon are referred to herein as the “Listed Directors.” Information regarding these persons is contained in the Schedule 1 hereto.

Other capitalized terms used herein and not otherwise defined herein shall have the respective meanings assigned to such terms in the Schedule 13D.

This Amendment is being filed solely to reflect the distribution by Optima to its owners and to Pillar of shares of common stock of the Issuer (the “Common Stock”) pursuant to pre-existing obligations, as further described in Item 5.

Item 5. Interest in Securities of the Issuer.

Item 5 of the Schedule 13D is amended and restated as follows:

(a) Youssef El-Zein beneficially owns 1,380,540 shares of Common Stock, representing approximately 6.4% of the outstanding Common Stock of the Issuer (based on information provided by the Issuer, there were 21,464,439 shares of Common Stock outstanding as of October 31, 2007). These shares include (i) 282,918 shares of Common Stock held directly by Mr. El-Zein, (ii) 41,894 shares of Common Stock held by Pillar, (iii) 144,148 shares of Common Stock issuable upon exercise of the Pillar Warrants, (iv) 705,315 shares of Common Stock held by Optima, and (v) 206,265 shares of Common Stock issuable upon exercise of the Optima Warrants. Mr. El-Zein, because of his relationship with Pillar and Optima, may be deemed to own beneficially, within the meaning of Rule 13d-3, all of the shares of Common Stock that Pillar and Optima beneficially own.

Pillar beneficially owns 1,097,622 shares of Common Stock. These shares represent approximately 5.1% of the Common Stock outstanding. These shares include (i) 41,894 shares of Common Stock held by Pillar, (ii) 144,148 shares of Common Stock issuable upon exercise of



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the Pillar Warrants, (iii) 705,315 shares of Common Stock held by Optima, and (iv) 206,265 shares of Common Stock issuable upon exercise of the Optima Warrants. As the holder of the voting shares of Optima, Pillar has the ability to elect and remove the directors of Optima, and, as a result, may be deemed to own beneficially, within the meaning of Rule 13d-3, all of the shares of Common Stock that Optima beneficially owns.

Optima beneficially owns 911,580 shares of Common Stock. These shares represent approximately 4.2% of the Common Stock outstanding. These shares are comprised of (i) 705,315 shares of Common Stock held by Optima and (ii) 206,265 shares of Common Stock issuable upon exercise of the Optima Warrants. None of the Listed Directors owns any shares of Common Stock.

(b) Number of shares as to which each of the Reporting Parties has:

Sole power to vote or direct the vote of shares of Common Stock:

|              |         |
|--------------|---------|
| Mr. El-Zein: | 282,918 |
| Pillar:      | 186,042 |
| Optima:      | 911,580 |

Shared power to vote or to direct the vote of shares of Common Stock:

|              |           |
|--------------|-----------|
| Mr. El-Zein: | 1,380,540 |
| Pillar:      | 1,097,622 |
| Optima:      | 0         |

Sole power to dispose of or direct the disposition of shares of Common Stock:

|              |         |
|--------------|---------|
| Mr. El-Zein: | 282,918 |
| Pillar:      | 186,042 |
| Optima:      | 911,580 |

Shared power to dispose or to direct the disposition of shares of Common Stock:

|              |           |
|--------------|-----------|
| Mr. El-Zein: | 1,380,540 |
| Pillar:      | 1,097,622 |
| Optima:      | 0         |

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(c) Except as described below, none of the Reporting Parties and, to the knowledge of the Reporting Parties, none of the Listed Directors has effected any transactions in the Common Stock during the past 60 days:

On March 11, 2008, Pillar exercised its right to purchase 54,065 shares of the Issuer pursuant to a warrant. Then, also on March 11, 2008, Pillar assigned and transferred these 54,065 shares of the Issuer to Mr. El-Zein.

On March 28, 2008, Optima exercised its right to purchase 69,202 shares of the Issuer pursuant to a warrant.

On April 4, 2008, Optima distributed shares of the Issuer to (i) certain shareholders of Optima pursuant to a redemption request of such shareholders which entitled them, automatically and without any discretion on the part of Pillar or Optima, to a distribution of shares of the Issuer in satisfaction of the redemption request and (ii) Pillar in connection with Pillar's carried interest in such shares in accordance with the governing documents of Optima.

(d) The Reporting Parties do not know of any other person who has the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the shares of Common Stock reported in this Amendment as beneficially owned by the Reporting Parties.

(e) Not applicable

#### SIGNATURES

After reasonable inquiry and to the best of knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

April 16, 2008

/s/ Youssef El-Zein  
Youssef El-Zein

PILLAR INVESTMENT LIMITED

By: /s/ Youssef El-Zein  
Youssef El-Zein  
Director

OPTIMA LIFE SCIENCES LIMITED

By: /s/ Bilal Sidani  
Bilal Sidani  
Director

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### SCHEDULE I

Set forth below is the name, position, present principal occupation and business address of each of the directors Pillar and Optima.

|                       |                      | Pillar                                |   |                          |
|-----------------------|----------------------|---------------------------------------|---|--------------------------|
| Name                  | Position with Pillar | Present Principal Occupation          | Business Address  | Citizenship              |
| Youssef El-Zein       | Director             | Director of Pillar Investment Limited | Starco Center<br>Omar Daouk Street<br>Bloc B – Third Floor<br>Beirut Central District<br>Beirut 2020-3313 Lebanon | France                   |
| Bilal Sidani          | Director             | Director of Pillar Investment Limited | Starco Center<br>Omar Daouk Street<br>Bloc B – Third Floor<br>Beirut Central District<br>Beirut 2020-3313 Lebanon | France                   |
|                       |                      | Optima                                |   |                          |
| Name                  | Position with Optima | Present Principal Occupation          | Business Address  | Citizenship              |
| Youssef El-Zein       | Director             | Director of Pillar Investment Limited | Starco Center<br>Omar Daouk Street<br>Bloc B – Third Floor<br>Beirut Central District<br>Beirut 2020-3313 Lebanon | France                   |
| Bilal Sidani          | Director             | Director of Pillar Investment Limited | Starco Center<br>Omar Daouk Street<br>Bloc B – Third Floor<br>Beirut Central District<br>Beirut 2020-3313 Lebanon | France                   |
| Stockton B. Birthisel | Managing Director    | Atlas Corporate Services              | Atlas Corporate Services Limited<br>Stanley House, Lord Street<br>IM1 2BF Douglas, Isle of Man<br>British Isles   | United States of America |
| John Sturgeon         | Corporate Executive  | Atlas Corporate Services              | Atlas Corporate Services Limited<br>Stanley House, Lord Street<br>IM1 2BF Douglas, Isle of Man<br>British Isles   | United States of America |