

Avinger Inc  
Form S-1/A  
February 13, 2018

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As filed with the Securities and Exchange Commission on February 13, 2018

Registration No. 333-222517

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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AMENDMENT NO. 3  
TO  
**FORM S-1**  
REGISTRATION STATEMENT  
Under  
The Securities Act of 1933

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**AVINGER, INC.**

(Exact name of Registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**3841**  
(Primary Standard Industrial  
Classification Code Number)  
**400 Chesapeake Drive**  
**Redwood City, California 94063**  
**(650) 241-7900**

**20-8873453**  
(I.R.S. Employer  
Identification Number)

(Address, including zip code, and telephone number, including area code, of Registrant's principal executive offices)

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**Jeffrey M. Soinski**  
**Chief Executive Officer**  
**Avinger, Inc.**  
**400 Chesapeake Drive**  
**Redwood City, CA 94063**  
**(650) 241-7900**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

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**Copies to:**  
**Philip H. Oettinger**  
Wilson Sonsini Goodrich & Rosati

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Professional Corporation  
650 Page Mill Road  
Palo Alto, California 94304  
(650) 493-9300

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**Approximate date of commencement of proposed sale to the public:  
As soon as practicable after the effective date of this Registration Statement.**

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer       Accelerated filer       Non-accelerated filer       Smaller reporting company   
(Do not check if a  
smaller reporting  
company)      Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

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**The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the Commission acting pursuant to said Section 8(a) may determine.**

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**EXPLANATORY NOTE**

This Amendment No. 3 (the "Amendment") to the Registration Statement on Form S-1 (File No. 333-222517) (the "Registration Statement") of Avinger, Inc. is being filed solely for the purpose of filing certain exhibits to the Registration Statement and updating Item 16 of Part II of the Registration Statement. Accordingly, the Amendment consists solely of the facing page, this explanatory note, Item 16 of Part II of the Registration Statement, the index to exhibits, the signatures and the filed exhibits and is not intended to amend or delete any part of the Registration Statement except as specifically noted herein.

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PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 16. Exhibits and Financial Statement Schedules

The following exhibits are filed as part of this registration statement.

Exhibit Number	Exhibit Title
1.1	<u>Form of Underwriting Agreement.</u>
3.1(1)	<u>Amended and Restated Certificate of Incorporation of the registrant.</u>
3.2(1)	<u>Bylaws of the registrant.</u>
3.3(12)	<u>Certificate of Amendment to the Amended and Restated Certificate of Incorporation.</u>
3.4	<u>Form of Certificate of Designation of Series A Preferred Stock.</u>
3.5	<u>Form of Certificate of Designation of Series B Preferred Stock.</u>
4.1(2)	<u>Specimen Common Stock certificate of the registrant.</u>
4.2	<u>Form of Warrant to be Issued in Offering.</u>
5.1	<u>Opinion of Wilson Sonsini Goodrich &amp; Rosati, Professional Corporation.</u>
10.1(3)	<u>Form of Indemnification Agreement for directors and executive officers.</u>
10.2(4)	<u>2009 Stock Plan and Form of Option Agreement thereunder.</u>
10.3(4)	<u>2014 Preferred Stock Plan.</u>
10.4(3)	<u>2015 Equity Incentive Plan.</u>
10.5(3)	<u>Form of Restricted Stock Unit Award Agreement.</u>
10.6(3)	<u>Form of Stock Option Agreement.</u>
10.7(3)	<u>2015 Employee Stock Purchase Plan.</u>
10.8(3)	<u>Executive Incentive Compensation Plan.</u>
10.9(4)	<u>Amended and Restated Investors' Rights Agreement dated September 2, 2014 by and among the registrant and certain stockholders.</u>
10.10(4)	<u>Lease Agreement, dated July 30, 2010, by and between the registrant and HCP LS Redwood City, LLC for office space located at 400 and 600 Chesapeake Drive, Redwood City, California.</u>
10.11(4)	<u>First Amendment to Lease Agreement dated September 30, 2011 by and between registrant and HCP LS Redwood City, LLC.</u>
10.12(5)	<u>Second Amendment to Lease Agreement dated March 4, 2016 by and between registrant and HCP LS Redwood City, LLC.</u>
10.13(4)	<u>Credit Agreement dated April 18, 2013 by and between registrant and PDL Biopharma.</u>
10.14(4)	<u>Security Agreement dated April 18, 2013 by and between registrant and PDL BioPharma.</u>
10.15(4)	<u>Employment Letter dated November 5, 2014 by and between registrant and John B. Simpson.</u>



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<b>Exhibit Number</b>	<b>Exhibit Title</b>
10.16(4)	<u>Employment Letter dated April 2, 2014 by and between registrant and John D. Simpson.</u>
10.17(4)	<u>Employment Letter dated December 29, 2010 by and between registrant and Matthew B. Ferguson.</u>
10.18(4)	<u>Employment Letter dated November 28, 2011 by and between registrant and Sougata Banerjee.</u>
10.19(4)	<u>Change of Control and Severance Agreement dated March 1, 2012 by and between registrant and John B. Simpson.</u>
10.20(4)	<u>Change of Control and Severance Agreement dated March 1, 2012 by and between registrant and Matthew B. Ferguson.</u>
10.21(4)	<u>Change of Control and Severance Agreement dated March 1, 2012 by and between registrant and Sougata Banerjee.</u>
10.22(4)	<u>Employment Letter dated December 17, 2014 by and between registrant and Jeffrey M. Soinski.</u>
10.23(4)	<u>Note and Warrant Purchase Agreement dated October 29, 2013 by and between registrant and holders of convertible promissory notes.</u>
10.24(4)	<u>Amendment No. 1 to the Note and Warrant Purchase Agreement dated May 6, 2014 by and between registrant and holders of convertible promissory notes.</u>
10.25(6)	<u>Term Loan Agreement, dated as of September 22, 2015, by and among Avinger, Inc., certain of its subsidiaries from time to time party thereto as guarantors and CRG Partners III L.P. and certain of its affiliated funds, as lenders.</u>
10.26(6)	<u>Securities Purchase Agreement, dated as of September 22, 2015, by and among Avinger, Inc., and CRG Partners III L.P. and certain of its affiliated funds (collectively, "CRG"), as purchasers.</u>
10.27(7)	<u>Sales Agreement dated as of February 3, 2016, between the Registrant and Cowen and Company, LLC.</u>
10.28(8)	<u>Purchase Agreement, dated November 3, 2017, between the Registrant and Lincoln Park Capital Fund, LLC.</u>
10.29(8)	<u>Registration Rights Agreement, dated November 3, 2017, between the Registrant and Lincoln Park Capital Fund, LLC.</u>
10.30(10)	<u>Waiver and Consent, dated as of December 14, 2017, among the Registrant and the Lenders party to that certain Term Loan Agreement, dated as of September 22, 2015.</u>
10.31(11)	<u>Waiver and Consent, dated as of January 24, 2018, among the Registrant and the Lenders party to that certain Term Loan Agreement, dated as of September 22, 2015.</u>
10.32	<u>Form of Registration Rights Agreement, dated as of February __, 2018, among the Registrant and CRG.</u>
10.33	<u>Form of Series A Preferred Stock Purchase Agreement, dated as of February __, 2018, among the Registrant and CRG.</u>
10.34	<u>Amendment No. 2 to the Term Loan Agreement, dated as of February __, 2018, among the Registrant and CRG.</u>

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<b>Exhibit Number</b>	<b>Exhibit Title</b>
23.1	<u>Consent of Independent Registered Public Accounting Firm.</u>
23.2	<u>Consent of Wilson Sonsini Goodrich &amp; Rosati, Professional Corporation (See Exhibit 5.1).</u>
24.1	<u>Power of Attorney.</u>
101.INS	XBRL Instance Document.
101.SCH	XBRL Taxonomy Extension Schema Document.
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.
101.LAB	XBRL Taxonomy Extension Label Linkbase Document.
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.

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Previously filed.

- (1) Previously filed an Exhibit to the Current Report on Form 8-K filed with the Securities and Exchange Commission on February 6, 2015, and incorporated by reference herein.
- (2) Previously filed as an Exhibit to Amendment No. 2 to the Registrant's Registration Statement on Form S-1 (File No. 333-201322) filed with the Securities and Exchange Commission on January 28, 2015, and incorporated by reference herein.
- (3) Previously filed as an Exhibit to Amendment No. 1 to the Registrant's Registration Statement on Form S-1 (File No. 333-201322) filed with the Securities and Exchange Commission on January 20, 2015, and incorporated by reference herein.
- (4) Previously filed as an Exhibit to the Registrant's Registration Statement on Form S-1 (File No. 333-201322), filed with the Securities and Exchange Commission on December 30, 2014, and incorporated by reference herein.
- (5) Previously filed as an Exhibit to the Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 8, 2016, and incorporated by reference herein.
- (6) Previously filed as an Exhibit to the Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 12, 2015, and incorporated by reference herein.
- (7) Previously filed as an Exhibit to the Registrant's Registration Statement on Form S-3 (File No. 333-209368), filed with the Securities and Exchange Commission on February 3, 2016, and incorporated by reference herein.
- (8) Previously filed as an Exhibit to the Registrant's Registration Statement on Form S-1 (File No. 333-221368), filed with the Securities and Exchange Commission on November 6, 2017, and incorporated by reference herein.
- (9) Previously filed as an Exhibit to the Registrant's Current Report on Form 8-K filed with the Securities and Exchange Commission on December 11, 2017.
- (10)

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Previously filed as an Exhibit to the Registrant's Current Report on Form 8-K filed with the Securities and Exchange Commission on December 14, 2017.

- (11) Previously filed as an Exhibit to the Registrant's Current Report on Form 8-K filed with the Securities and Exchange Commission on January 30, 2018.
- (12) Previously filed as an Exhibit to the Registrant's Current Report on Form 8-K filed with the Securities and Exchange Commission on February 2, 2018.

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QuickLinks

EXPLANATORY NOTE

PART II INFORMATION NOT REQUIRED IN PROSPECTUS

Item 16. Exhibits and Financial Statement Schedules