

Avinger Inc  
Form SC 13G/A  
February 10, 2017

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

**SCHEDULE 13G**

**Under the Securities Exchange Act of 1934  
(Amendment No. 1)\***

**Avinger, Inc.**

(Name of Issuer)

**Class A Common Stock, \$0.001 par value per share**

(Title of Class of Securities)

**053734109**

(CUSIP Number)

**December 31, 2016**

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

\*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 the disclosures provided in a prior cover page.

The information required in 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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CUSIP No. 053734109

1. Names of Reporting Persons.  
John B. Simpson PH.D. M.D.
2. Check the Appropriate Box if a Member of a Group (See Instructions)  
(a)   
(b)
3. SEC Use Only
4. Citizenship or Place of Organization  
United States of America
- |  |    |   |
|--|----|---|
| Number of<br>Shares<br>Beneficially<br>Owned by<br>Each<br>Reporting<br>Person With: | 5. | Sole Voting Power<br>867,179 (See Item 4(a) below)          |
|  | 6. | Shared Voting Power<br>1,377,300 (See Item 4(a) below)      |
|  | 7. | Sole Dispositive Power<br>867,179 (See Item 4(a) below)     |
|  | 8. | Shared Dispositive Power<br>1,377,300 (See Item 4(a) below) |
9. Aggregate Amount Beneficially Owned by Each Reporting Person  
2,244,479 (See Item 4(a) below)
10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)
11. Percent of Class Represented by Amount in Row (9)  
9.4% (See Item 4(b) below)
12. Type of Reporting Person (See Instructions)  
IN

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**Item 1.**

- (a) Name of Issuer:  
Avinger, Inc.
- (b) Address of Issuer's Principal Executive Offices:  
400 Chesapeake Drive  
  
Redwood City, CA 94063

**Item 2.**

- (a) Name of Person Filing:  
John B. Simpson Ph.D. M.D.
- (b) Address of Principal Business Office or, if none, Residence:  
c/o Avinger, Inc.  
  
400 Chesapeake Drive  
  
Redwood City, CA 94063
- (c) Citizenship:  
John B. Simpson is a U.S. citizen
- (d) Title of Class of Securities:  
Common Stock, \$0.001 par value per share
- (e) CUSIP Number:  
053734109

**Item 3.**

**If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is**  
**a:**  
Not applicable.

**Item 4. Ownership.**

(a) Amount beneficially owned:

As of December 31, 2016 (i) 41 shares of Common Stock were held of record by Dr. Simpson, (ii) 867,138 shares subject to options to purchase Common Stock that were fully exercisable within 60 days of December 31, 2016 were held of record by Dr. Simpson, (iii) 1,074,130 shares of Common Stock were held of record by the Simpson Family Trust Dated 1/12/90, for which Dr. Simpson and his spouse serve as trustees, (iv) 222,220 shares subject to warrants to purchase Common Stock were held of record by the Simpson Family Trust Dated 1/12/90, for which Dr. Simpson and his spouse serve as trustees, (v) 47,618 shares of Common Stock were held of record by Dr. Simpson's spouse and (vi) 33,332 shares subject to warrants to purchase Common Stock were held of record by Dr. Simpson's spouse. Additionally, Dr. Simpson is the record owner of 30,000 shares of Common Stock of the Issuer that were issued pursuant to a Restricted Stock Unit, none of which will be issued within 60 days.

(b) Percent of class:

9.4%

The ownership percentage above is calculated based on 23,776,033 shares of Common Stock outstanding as of December 31, 2016, as reported by the issuer to the reporting person.

(c) Number of shares as to which the person has:

- |       |   |
|-------|---|
| (i)   | Sole power to vote or to direct the vote                |
|       | 867,179   |
| (ii)  | Shared power to vote or to direct the vote              |
|       | 1,377,300   |
| (iii) | Sole power to dispose or to direct the disposition of   |
|       | 867,179   |
| (iv)  | Shared power to dispose or to direct the disposition of |
|       | 1,377,300   |

**Item 5. Ownership of Five Percent or Less of a Class.**

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following o.

**Item 6. Ownership of More than Five Percent on Behalf of Another Person.**

Not applicable.

**Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.**

Not applicable.

**Item 8. Identification and Classification of Members of the Group.**

Not applicable.

**Item 9. Notice of Dissolution of Group.**

Not applicable.

**Item 10. Certifications.**

Not applicable.

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This Schedule 13G is not filed pursuant to Rule 13d-1(b) or Rule 13d-1(c).

**SIGNATURE**

After reasonable inquiry and to the best of my knowledge and belief, I hereby certify that the information set forth in this statement is true, complete and correct.

DATED: February 10, 2017

/s/ John B. Simpson  
John B. Simpson