Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

30(h) of the Investment Company Act of 1940

ACCELERON PHARMA INC

Form 4

September 18, 2015

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

OMB APPROVAL

OMB 3235-0287 Number:

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Check this box if no longer subject to Section 16. Form 4 or

SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

may continue. See Instruction

1(b).

Form 5

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Sherman Matthew L Issuer Symbol ACCELERON PHARMA INC (Check all applicable) [XLRN] (Last) (First) (Middle) 3. Date of Earliest Transaction Director 10% Owner _X__ Officer (give title _ Other (specify (Month/Day/Year) below) 128 SIDNEY STREET 09/16/2015 **EVP & Chief Medical Officer** (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

Person

CAMBRIDGE, MA 02139

| (City) | (State) (| (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | | | | | |
|--------------------------------------|---|--|---|---|------------------|--------------------|--|--|---------|--|--|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired tion(A) or Disposed of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | | | |
| C | | | Code V | Amount | (A) or (D) | Price | Reported Transaction(s) (Instr. 3 and 4) | | | | |
| Common Stock | 09/16/2015 | | S <u>(1)</u> | 1,100 | D | 32.22 (2) | 96,904 | D | | | |
| Common Stock | 09/16/2015 | | S <u>(1)</u> | 300 | D | \$ 33.55 (3) | 96,604 | D | | | |
| Common Stock | 09/16/2015 | | S <u>(1)</u> | 200 | D | \$ 34.93 (4) | 96,404 | D | | | |
| Common Stock | 09/16/2015 | | S(1) | 400 | D | \$ 34.96 | 9,700 | Ι | By GRAT | | |

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1474 (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | isable and | 7. Title | and | 8. Price of |
|-------------|-------------|---------------------|--------------------|-----------|------------------------------|---------------------|--------------------|----------|----------|-------------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transac | ctionNumber | Expiration Da | ate | Amour | nt of | Derivative |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Underl | ying | Security |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8 | Derivative | e | | Securit | ties | (Instr. 5) |
| | Derivative | | | | Securities | | | (Instr. | 3 and 4) | |
| | Security | | | | Acquired | | | | | |
| | | | | | (A) or | | | | | |
| | | | | | Disposed | | | | | |
| | | | | | of (D) | | | | | |
| | | | | | (Instr. 3, | | | | | |
| | | | | | 4, and 5) | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | Amount | |
| | | | | | | Date Exercisable | Expiration Date | Title | or | |
| | | | | | | | | | Number | |
| | | | | | | | | | of | |
| | | | | Code | V (A) (D) | | | | Shares | |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Sherman Matthew L 128 SIDNEY STREET CAMBRIDGE, MA 02139

EVP & Chief Medical Officer

Signatures

/s/ John D. Quisel, as attorney-in-fact for Matthew L. Sherman

09/18/2015

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) The reported transactions were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$31.85 to \$32.54, inclusive. The reporting person undertakes to provide Acceleron Pharma Inc., any security holder of Acceleron Pharma Inc. or the staff of the Securities and Exchange commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote (2) to this Form 4.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$32.95 to \$33.92, inclusive. The reporting person undertakes to provide Acceleron Pharma Inc., any security holder of Acceleron Pharma Inc. or the staff of the Securities and Exchange commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote (3) to this Form 4.

Reporting Owners 2

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The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$34.85 to \$35.01, inclusive. The reporting person undertakes to provide Acceleron Pharma Inc., any security holder of Acceleron Pharma Inc. or the staff of the Securities and Exchange commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote (4) to this Form 4.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.