

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL | |
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| 1. Name and Address of Reporting Person* <u>Westphal Christoph H</u> (Last) (First) (Middle) <u>C/O VERASTEM, INC., 215 FIRST STREET</u> <u>SUITE 440</u> (Street) <u>CAMBRIDGE MA 02142</u> (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>Verastem, Inc. [VSTM]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) <u>Chief Executive Officer</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>12/28/2012</u> | |
| | 4. If Amendment, Date of Original Filed (Month/Day/Year) | 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person |

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 (A) or Disposed Of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|--------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | 12/28/2012 | | A | | 25,826 | A | \$0 | 738,195 | D | |
| Common Stock | 02/06/2013 | | L ⁽¹⁾ | V | 100 | A | \$9.65 | 738,295 | D | |
| Common Stock | 02/06/2013 | | L ⁽¹⁾ | V | 4 | A | \$9.73 | 738,299 | D | |
| Common Stock | 02/06/2013 | | L ⁽¹⁾ | V | 200 | A | \$9.87 | 738,499 | D | |
| Common Stock | 02/06/2013 | | L ⁽¹⁾ | V | 100 | A | \$9.9 | 738,599 | D | |
| Common Stock | 02/06/2013 | | L ⁽¹⁾ | V | 98 | A | \$9.91 | 738,697 | D | |
| Common Stock | 02/06/2013 | | L ⁽¹⁾ | V | 298 | A | \$10 | 738,995 | D | |
| Common Stock | | | | | | | | 2,869,841 | I | By Longwood Fund, L.P. ⁽²⁾ |
| Common Stock | | | | | | | | 125,714 | I | By the Fountain Irrevocable Trust of 2010 |

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

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----|--|-----------------|---|--|--|---|--|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | |

Explanation of Responses:

- The purchases reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted on November 20, 2012.
- Longwood Fund GP, LLC is the sole General Partner of Longwood Fund, L.P. Christoph Westphal, M.D., Ph.D., Richard Aldrich and Michelle Dipp, M.D., Ph.D. (collectively, the "Managers") are managers of Longwood Fund GP, LLC, and, as such, may be deemed to have shared voting and dispositive power with respect to the issuer's securities held by Longwood Fund L.P. (the "Longwood Shares"). Each of the Managers disclaims beneficial ownership of the Longwood Shares, except to the extent of their respective pecuniary interest therein, and the inclusion of the Longwood Shares in this report shall not be deemed an admission of beneficial ownership of the Longwood Shares for purposes of Section 16 or for any other purpose.

/s/ Paul Brannelly, attorney-in-fact 02/14/2013

** Signature of Reporting Person Date

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

* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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 Number.

