FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| OMB APPROVAL | | | | | | | | | | | |
|-------------------|-----------|--|--|--|--|--|--|--|--|--|--|
| OMB Number: | 3235-0287 | | | | | | | | | | |
| Estimated average | burden | | | | | | | | | | |

0.5

hours per response:

| | Check this box if no longer subject to |
|---|--|
| ١ | Section 16. Form 4 or Form 5 obligations may continue. See |
| J | obligations may continue. See |
| | Instruction 1(h) |

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

| 1. Name and Address of Reporting Person* MUELLER PETER | | | | | | 2. Issuer Name and Ticker or Trading Symbol VERTEX PHARMACEUTICALS INC / MA [VRTX] | | | | | | | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify | | | | | | |
|--|---|--------|------------------|-----------|-----------|---|-------|---|-----------------|------------------------------|------------------------|--|--|---|---|---|-------|--|--|--|
| (Last) | (| First) | (Middle) | | | | | | | | | | | X | below) | | | below) | peciny | |
| C/O VERTEX PHARMACEUTICALS INCORPORATED | | | | | | 3. Date of Earliest Transaction (Month/Day/Year) 01/15/2009 | | | | | | | | | EVP I | Orug Inno | v.& I | Realiz, CS | 0 | |
| 130 WAVERLY STREET | | | | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | | 6. Individual or Joint/Group Filing (Check Applicable Line) | | | | | |
| (Street) | | | | | | | | | | | | | ' | X | Form f | iled by One | Repo | orting Perso | n | |
| CAMBRIDGE MA 02139 | | | | _ | | | | | | | | | | Form filed by More than One Reporting Person | | | | | | |
| (City) | (| State) | (Zip) | | | | | | | | | | | | | | | | | |
| | | Tab | le I - N | lon-Deriv | vative | Sec | uriti | ies Ad | quire | d, D | isposed o | of, or B | eneficia | ally | Owned | l | | | | |
| 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day) | | | | | Execution | | Date, | | | 4. Securities Disposed O | | | Benef Owne | | es ally Following | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | | 7. Nature of Indirect Beneficial Ownership | | |
| | | | | | | | | | Code | v | Amount | (A) or (D) | Price | | Reporte Transac (Instr. 3 | tion(s) | | | (Instr. 4) | |
| Common Stock 01/15/20 | | | | | 2009 | 09 | | | M | | 2,400 | A | \$9.0 | 07 8 | | 3,790 | | D | | |
| Common Stock 01/15/2 | | | | | 2009 |)09 | | | | | 2,400 | D | \$29.63 | 63(2)(3) | | 86,390 | | D | | |
| Common Stock | | | | | | | | | | | | | | 3,460 | | | I | 401(k) | | |
| | | 7 | able I | | | | | | | | posed of , converti | | | | wned | | | | | |
| 1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise (Instr. 3) Derivative Security 3. Transacti Date (Month/Day) | | | Execut if any | | | ransaction Code (Instr. | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | Exercion Day/\(\frac{1}{2}\) | | 7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4) | | De Se (In | Price of erivative ecurity nstr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4) | ly | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | Beneficial Ownership ct (Instr. 4) | |
| | | | | | Code | v | (A) | (D) | Date Exercis | sable | Expiration Date | Title | Amount or Number of Shares | | | | | | | |

Explanation of Responses:

\$9.07

1. Transaction made pursuant to Dr. Mueller's company approved trading plan under Rule 10b5-1.

01/15/2009

- 2. Open market sales reported on this line occurred at a weighted average price of \$29.63 (range \$29.19 to \$30.05).
- 3. Dr. Mueller undertakes to provide (upon request by the SEC staff, the issuer or a security holder of the issuer) full information regarding the number of shares sold at each separate price.

(A) (D)

(4)

4. Fully vested.

Stock

Option

Remarks:

Valerie L. Andrews, Attorney-

** Signature of Reporting Person

2,400

In-Fact

Stock

12/10/2013

01/16/2009

0

Date

D

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.