

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>Horton Kenneth L</u> (Last) (First) (Middle) <u>C/O VERTEX PHARMACEUTICALS INCORPORATED</u> <u>50 NORTHERN AVENUE</u> (Street) <u>BOSTON MA 02210</u> (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>VERTEX PHARMACEUTICALS INC / MA [VRTX]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>EVP & Chief Legal Officer</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>09/30/2014</u> | |
| | 4. If Amendment, Date of Original Filed (Month/Day/Year) | |

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 | 09/30/2014 | | M | | 36,000 | A | \$55.83 | 68,463 | D | |
| Common Stock | 09/30/2014 | | S ⁽¹⁾ | | 4,713 | D | \$111.33 ⁽²⁾⁽³⁾ | 63,750 | D | |
| Common Stock | 09/30/2014 | | S ⁽¹⁾ | | 14,286 | D | \$112.22 ⁽³⁾⁽⁴⁾ | 49,464 | D | |
| Common Stock | 09/30/2014 | | S ⁽¹⁾ | | 9,601 | D | \$113.1 ⁽³⁾⁽⁵⁾ | 39,863 | D | |
| Common Stock | 09/30/2014 | | S ⁽¹⁾ | | 7,400 | D | \$113.91 ⁽³⁾⁽⁶⁾ | 32,463 | D | |
| Common Stock | | | | | | | | 366 | I | 401(k) |

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 | | | | | | Title |
| Stock Option (right to buy) | \$55.83 | 09/30/2014 | | M | | | 36,000 | (7) | 06/10/2022 | Common Stock | 36,000 | \$0.00 | 36,000 | D | |

Explanation of Responses:

- Transaction made pursuant to Mr. Horton's company approved trading plan under Rule 10b5-1.
- Open market sales reported on this line occurred at a weighted average price of \$111.33 (range \$110.61 to \$111.60).
- Mr. Horton 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.
- Open market sales reported on this line occurred at a weighted average price of \$112.22 (range \$111.61 to \$112.60).
- Open market sales reported on this line occurred at a weighted average price of \$113.10 (range \$112.61 to \$113.60).
- Open market sales reported on this line occurred at a weighted average price of \$113.91 (range \$113.62 to \$114.41).
- The option vests in 16 quarterly installments from 06/11/2012.

Remarks:

Kenneth L. Horton 10/01/2014
 ** 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.