

OMB APPROVAL	
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**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

1. Name and Address of Reporting Person* <u>MUELLER PETER</u>  (Last) (First) (Middle) <u>C/O VERTEX PHARMACEUTICALS INCORPORATED</u> <u>130 WAVERLY STREET</u>  (Street) <u>CAMBRIDGE MA 02139</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 Drug Innov.&amp; Realiz, CSO</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>02/04/2009</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	02/04/2009		S <sup>(1)</sup>		900	D	\$33.55 <sup>(2)(4)</sup>	85,490	D	
Common Stock	02/04/2009		S <sup>(1)</sup>		218	D	\$34.07 <sup>(3)(4)</sup>	85,272	D	
Common Stock	02/05/2009		A		12,084 <sup>(5)</sup>	A	\$0.01	97,356	D	
Common Stock								3,460	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					
Stock Option	\$33.55	02/05/2009		A		54,375		05/05/2009 <sup>(6)</sup>	02/04/2019	Common Stock	\$0	54,375	D	

**Explanation of Responses:**

- Transaction made pursuant to Dr. Mueller's company approved trading plan established under Rule 10b5-1.
- Open market sales reported on this line occurred at a weighted average price of \$33.55 (range \$32.96 to \$33.94).
- Open market sales reported on this line occurred at a weighted average price of \$34.07 (range \$34.02 to \$34.13).
- 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.
- Stock grant made under 2006 Stock and Option Plan, vesting on 2/5/2013, subject to 50% acceleration upon filing a new drug application with the FDA for telaprevir and 50% acceleration upon the approval of a new drug application for telaprevir.
- Right to buy under 2006 Stock and Option Plan, vesting in 16 quarterly installments from 02/05/09.

**Remarks:**

Valerie L. Andrews, Attorney-In-Fact 02/06/2009

\*\* 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.