FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

<b>TATEMENT</b>	<b>OF CHANGES</b>	<b>IN BENEFICIAL</b>	<b>OWNERSHIP</b>

OMB APPROVAL								
OMB Number:	3235-0287							
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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*  MUELLER PETER					V	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 V Officer (give title Other (specify											vner		
(Last) (First) (Middle) C/O VERTEX PHARMACEUTICALS INCORPORATED					Date of /15/20		est Trar	nsaction	ı (Mon	th/Day/Year)		X	below) below) EVP Global R&D, CSO						
130 WAVERLY STREET  (Street)  CAMBRIDGE MA 02139			_ 4. li	4. If Amendment, Date of Original Filed (Month/Day/Year)									dividual or Joint/Group Filing (Check Applic  Form filed by One Reporting Person  Form filed by More than One Reportin  Person				n		
(City)	(S	tate)	(Zip)																
		Tab	le I - N	lon-Deri	vative	Sec	urit	ies Ad	cquire	ed, D	isposed c	of, or B	eneficia	lly	Owned	I			
Date		2. Transac Date (Month/Da		Execution Da		Date,	Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 ar			nd 5) Securiti Benefic Owned		es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
						Code	v	Amount	(A) or (D)	Price			ted action(s) 3 and 4)			(Instr. 4)			
Common	Stock			01/15/2	2010				М		1,600	A	\$10.4	1	118	3,474		D	
Common Stock 01/15/20			2010	10		<b>S</b> <sup>(1)</sup>		1,300	D	\$40.090	9(2)(4) 11		17,174		D				
Common Stock 01/15/20			2010	10		<b>S</b> <sup>(1)</sup>		300	D	\$41.34	.34(3)(4)		116,874		D				
Common Stock													3,	882		I ·	401(k)		
		7	able I						•	•	posed of , converti	•		y O	wned		,		
1. Title of Derivative Security (Instr. 3)  2. Conversion or Exercise Price of Derivative Security  3. Transaction Date (Month/Day/Year)		Execut if any			ransaction ode (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		e Exercition Da h/Day/\		7. Title a Amount Securitie Underlyi Derivativ (Instr. 3	of es ng /e Security	De Se	Price of erivative ecurity 1str. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	Amount or Number of Shares						
Stock Option	\$10.41	01/15/2010			M			1,600	(5	5)	02/02/2015	Commor	1,600		\$ <mark>0</mark>	32,800	, [	D	

## **Explanation of Responses:**

- 1. Transaction made pursuant to Dr. Mueller's company approved trading plan under Rule 10b5-1.
- 2. Open market sales reported on this line occurred at a weighted average price of \$40.09 (range \$39.83 to \$40.37).
- 3. Open market sales reported on this line occurred at a weighted average price of \$41.34 (range \$40.94 to \$41.74).
- 4. 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.
- 5. Fully vested.

## Remarks:

Kenneth S. Boger, Attorney-In-01/19/2010 **Fact** 

\*\* Signature of Reporting Person

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.