SEC	Form	4
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# FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

)	Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).
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# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 OMB Number: 3235-0287 Estimated average burden hours per response: 0.5

MUELLER PETER			2. Issuer Name and Ticker or Trading Symbol VERTEX PHARMACEUTICALS INC /		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
INCORPORA		(Middle) UTICALS	MA [ VRTX ]         3. Date of Earliest Transaction (Month/Day/Year)         10/15/2010	X	Officer (give title below) EVP, Global R	Other (specify below) &D, CSO			
130 WAVERL (Street) CAMBRIDGH		02139	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line) X	vidual or Joint/Group Fil Form filed by One Re Form filed by More th Person	eporting Person			
(City)	(State)	(Zip)							

## 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)		Transaction Disposed Of (D) (Instr. 3, 4 and 5) Code (Instr.		5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	10/15/2010		М		1,600	Α	\$10.41	120,834	D	
Common Stock	10/15/2010		<b>S</b> <sup>(1)</sup>		1,270	D	\$35.55 <sup>(2)(4)</sup>	119,564	D	
Common Stock	10/15/2010		<b>S</b> <sup>(1)</sup>		330	D	\$36.02(3)(4)	119,234	D	
Common Stock								4,150	Ι	401(k)

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

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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. Transa Code ( 8)		of Deri Sect Acq (A) o Disp of (I	oosed D) tr. 3, 4	Expiration Date (Month/Day/Year) sed 3, 4		Amount of		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	Amount or Number of Shares				
Stock Option	\$10.41	10/15/2010		М			1,600	(5)	02/02/2015	Common Stock	1,600	\$ <b>0</b>	18,400	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 \$35.55 (range \$34.88 to \$35.87).

3. Open market sales reported on this line occurred at a weighted average price of \$36.02 (range (\$35.96 to \$36.10).

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:

#### Valerie L. Andrews, Attorney-10/18/2010

In-Fact

\*\* 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.