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	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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

Name and Address of Reporting Person* MUELLER PETER						2. Issuer Name and Ticker or Trading Symbol VERTEX PHARMACEUTICALS INC / MA [VRTX]									applio irecto	cable) or (give title	g Pers	10% Ov Other (s below)	vner		
(Last) (First) (Middle) C/O VERTEX PHARMACEUTICALS INCORPORATED						3. Date of Earliest Transaction (Month/Day/Year) 04/11/2011									,	√P, Globa	ıl R&	,			
130 WAVERLY ST						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) CAMBRIDGE MA 02139					_										X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)																		
		Tak	ole I - N	lon-Deri	vativ	e Sec	curit	ties Ac	quire	d, Di	isposed o	f, or Be	eneficia	ly Ow	ned	Ī					
1. Title of Security (Instr. 3)				2. Transac Date (Month/Da		Exe	2A. Deemed Execution Date, f any Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Disposed Of			Benefic Owned		es ially Following	Forn (D) o	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price	Tra		tion(s) and 4)			(Instr. 4)		
Common Stock				04/11/2011				M		2,500	A	\$10.4	10.41 13		5,235		D				
Common Stock				04/11/2011				M		37,500	A	\$16.3	.6.32 173		3,735		D				
Common Stock 04/11/					2011	2011					18,865	D	\$47.83	.83(2)(3) 15		4,870		D			
Common Stock 04/11/20					2011	11			S ⁽¹⁾		21,135	D	\$48.2 ⁽³⁾	548.2 ⁽³⁾⁽⁴⁾		133,735		D			
		-	Table II								posed of, convertil			Own	ed						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	med on Date,	4. Transa Code (8)	ction	5. N of Deri Sec Acq (A) o Disp of (I	umber ivative urities uired	6. Date Exerc Expiration Da (Month/Day/Y		cisable and	7. Title a of Securi Underlyi	nd Amount ities ng e Security	Deriva Secur	Price of erivative ecurity 1str. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	is Silly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares	per							
Stock Option	\$16.32	04/11/2011			M			37,500	(5))	07/14/2013	Common Stock	37,500	\$0.0	\$0.00 112,		0	D			
Stock	\$10.41	04/11/2011			M			2,500	(5))	02/02/2015	Common	2,500	\$0.0	00	14,300		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 \$47.83 (range \$47.57 to \$47.99).
- 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.
- 4. Open market sales reported on this line occurred at a wieghted average price of \$48.20 (range \$48.00 to \$48.84).
- 5. Fully vested.

Remarks:

Valerie L. Andrews, Attorney-

04/13/2011

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.