FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## 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

1. Name ar	SYI	2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [ SNTA ]										all app	olicable) tor	1	Person(s) to Iss					
(Last) (First) (Middle) C/O SYNTA PHARMACEUTICALS CORP.						3. Date of Earliest Transaction (Month/Day/Year) 03/01/2012									X	belov	,	b	Other (spec below) dical Officer	
45 HAR7	4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)									
(Street) LEXINGTON MA 02421															X	<b>'</b>				
(City)	(Sta	ate) (Z	Zip)																	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transactio Date (Month/Day/Y					Year) i	Execution Date,			3. Transaction Disposed Of (D) (Instr. 3. 5)						, 4 and Secu		icially d	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		Reported Transaction(s) (Instr. 3 and 4)		(31. 4)		(111541. 4)				
Common	)12				S <sup>(1)</sup>		2,555	D \$4.6		\$4.69	9 <sup>(2)</sup> 22,249		2,249	D						
	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)	ive Conversion Date Execution Date, or Exercise (Month/Day/Year) if any		Code (I	saction of Derivative Securities Acquired (A) or Disposed of (D) ((nstr. 3, 4 and 5)			6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date			or Numb		f g nstr. nount	nt er		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form: Direct or Ind (I) (Ins 4)	(D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## Explanation of Responses:

- 1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on November 18, 2011, and were made in part to fund certain out-of-pocket tax withholding liabilities associated with the vesting of restricted stock granted on March 1, 2011.
- 2. The shares were sold in multiple transactions at prices ranging from \$4.6375 to \$4.7523 per share. The price reported above is the weighted average sale price. The Reporting Person hereby undertakes to provide upon request to the staff of the SEC, the Issuer or a security holder of the Issuer, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.

/s/ Ann Margaret Eames, Attorney-in-Fact 03/05/2012

\*\* 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.

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