FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
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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).

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

(Last) C/O SYN 45 HAR' (Street) LEXING	II Safi R (F VTA PHAR TWELL A FTON M	IA (SYN SNT. 3. Dat 09/13	2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA] 3. Date of Earliest Transaction (Month/Day/Year) 09/13/2012 4. If Amendment, Date of Original Filed (Month/Day/Year)							6. In Line	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner X Officer (give title Other (specify below) President and CEO 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(3		Zip)															
		Tab	le I - N					Acc		isp				y Owned				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						Execution Date,					ities Acquired (A) or d Of (D) (Instr. 3, 4		5. Amou Securition Benefici Owned Followin	es ally	Form (D) o	r I (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) or (D)		Reporte Transac			. 4)	msu. 4)
	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. Dee Execution if any (Month/	on Date,	Code (Ir		5. Number		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. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	Owner Form: Direct or Ind (I) (Ins	Ownership Form: Direct (D) or Indirect (I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amount or Number of Shares					
Employee Stock Option (Right to Buy)	\$8.05	09/13/2012			A		100,000		(1)	09	9/13/2022	Common Stock	100,000	\$0	100,00	00	D	

Explanation of Responses:

1. The option vests as to 25% of the shares on September 13, 2013 and as to an additional 6.25% of the shares on the last day of each successive three-month period thereafter.

/s/ Ann Margaret Eagleston, Attorney-in-Fact 09/17/2012

** 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.

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.