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 and Address of Reporting Person*  Ehrlich Keith S  (Last) (First) (Middle)  C/O SYNTA PHARMACEUTICALS CORP.  45 HARTWELL AVENUE  (Street)  LEXINGTON MA 02421  (City) (State) (Zip)						2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [ SNTA ] 3. Date of Earliest Transaction (Month/Day/Year) 03/06/2012 4. If Amendment, Date of Original Filed (Month/Day/Year)								Relationship of Reporting Person(s) to Issuer heck all applicable)  Director 10% Owner  X Officer (give title Other (specify below)  VP, Fin. and Admin., CFO  Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person  Form filed by More than One Reporting Person				wner specify spplicable
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day)					ction	Execution Date,			3. Transacti Code (Ins	on	4. Securities Acquired Disposed Of (D) (Instr. and 5)			A) or 5. Amount of		F (E In (Ii	. Ownership form: Direct D) or ndirect (I) nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 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. Deer Execution if any (Month/	on Date,	4. Transact Code (In 8)		ion of E		6. Date Exer Expiration I (Month/Day/		Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price of Derivati Security (Instr. 5	derivative Securities Beneficial		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable	Ex <sub> </sub>	piration te	Title	Amount or Number of Shares					
Employee Stock Option (Right to Buy)	\$4.22	03/06/2012			A		48,760		(1)	03/	/06/2022	Common Stock	48,760	\$0	4	8,760	D	

## Explanation of Responses:

 $1. \ The \ option \ vests \ as \ to \ 25\% \ of \ the \ shares \ on \ March \ 6, \ 2013 \ and \ as \ to \ an \ additional \ 6.25\% \ of \ the \ shares \ on \ the \ last \ day \ of \ each \ successive \ three-month \ period \ thereafter.$ 

/s/ Ann Margaret Eames, Attorney-in-Fact 03/08/2012

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.