FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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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

1. Name and Address of Reporting Person* Rieder Wendy E					2. Issi	2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA]									ck all ap	ip of Reporting Person(s) to Iss blicable) ctor 10% Ow er (give title Other (si		Owner
(Last) (First) (Middle) C/O SYNTA PHARMACEUTICALS CORP.						3. Date of Earliest Transaction (Month/Day/Year) 06/04/2012									belo	w)	below	ı)
45 HAR'	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															Y Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(S	tate) (Zip)															
		Tab	le I - N	on-Deriv	ative S	Sec	urit	ies A	cquired,	Dis	osed	of, or	Benef	ficially	/ Own	ed		
[C			2. Transaction Date (Month/Day/Year)		Execution Date,			Code (I	4. Securities Acquired (Disposed Of (D) (Instr. and 5)				Secur	icially d	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
									Code V		Amou		A) or D)	Price	Repo		(Instr. 4)	(Instr. 4)
Common Stock 06/04/2					2012	012			M		7,1	70	A	\$2.49	2	6,993	D	
Common Stock 06/04				06/04/2	:012			S ⁽¹⁾		7,1	70	D	\$5.5		9,823	D		
		Ta	able II	- Derivat (e.g., p					uired, D s, option						Owned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	on Date,	4. Transact Code (In 8)			6. Date Exercisable an Expiration Date (Month/Day/Year)			Amount of Securities Underlying Derivative Security (Instr. : and 4)		of De Se (Ir	Price erivative curity estr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	V (A	(A)	(D)	Date Exercisabl		piration te	Title	Amour or Numbe of Shares	ber				
Employee Stock Option (Right to Buy)	\$2.49	06/04/2012			M			7,170	(2)	04/	/13/2019	Commo Stock	ⁿ 7,1	70	\$0	23,700	D	

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 12, 2011.
- $2. \ The \ option \ vested \ as \ to \ 50\% \ of \ the \ shares \ on \ January \ 13, \ 2010 \ and \ as \ to \ the \ remaining \ 50\% \ of \ the \ shares \ on \ October \ 13, \ 2010.$

/s/ Ann Margaret Eames. Attorney-in-Fact 06/06/2012

** Signature of Reporting Person Dat

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

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.

^{*} 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).