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

1. Name and Address of Reporting Person* Rieder Wendy E (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) 03/05/2013 4. If Amendment, Date of Original Filed (Month/Day/Year)									Relationship of Reporting Person(s) to Isseneck all applicable) Director 10% Own X Officer (give title Other (sp below) VP, IP and Legal, Gen. Counsel Individual or Joint/Group Filing (Check Apple) X Form filed by One Reporting Person Form filed by More than One Report				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day)					Execution Date,			3. Transacti Code (Ins 8)		4. Securities Acquired Disposed Of (D) (Instr. and 5) Amount (A) or (D)			Securities Beneficially Owned Following Reported		s ally g ion(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 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		3A. Dee Execution if any (Month/		4. Transact Code (In 8)		on of E		6. Date Exercisab Expiration Date (Month/Day/Year)			Amount of Securities Underlying Derivative Security (I and 4)		8. Price of Derivat Securit (Instr.	ive Si y B i) O Fi R	. Number of lerivative derivative decurities deneficially	Ownership Form: Direct (D) or Indirec (I) (Instr. 4)		Beneficial Ownership	
					Code	v	(A)	(D)	Date Exercisable		piration te	Title	Amount or Number of Shares							
Employee Stock Option (Right to Buy)	\$9.65	03/05/2013			A		52,143		(1)	03/	/05/2023	Common Stock	52,143	\$0		52,143		D		

Explanation of Responses:

1. The option vests as to 25% of the shares on March 5, 2014 and as to an additional 6.25% of the shares on the last day of each successive three-month period thereafter.

/s/ Brian Keane, Attorney-in-Fact 03/07/2013

** 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.