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* Bernitz Steven B (Last) (First) (Middle) C/O SYNTA PHARMACEUTICALS CORP. 45 HARTWELL AVENUE (Street)						2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA] 3. Date of Earliest Transaction (Month/Day/Year) 12/18/2013 4. If Amendment, Date of Original Filed (Month/Day/Year)								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) below) SVP, Corporate Development 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person				
LEXINGTON MA 02421 (City) (State) (Zip)														Form filed by More than One Reporting Person				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/					on /Year)	n 2A. Deemed Execution Date,			3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3,			5. Amo	unt of es ially	Form (D) o	n: Direct	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A) or (D)	Price	Reporte Transac			1. 4)	msu. 4)
Common Stock 12/18/20						3		Α		25,000	1) A	\$0.000	25,000			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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)				6. Date Exerci Expiration Da (Month/Day/Y		ate	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)	s s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares					
Employee Stock Option (Right to Buy)	\$4.34	12/18/2013			A		150,000		(2)		12/18/2023	Common Stock	150,000	\$0	150,00	00	D	

Explanation of Responses:

- 1. Represents a restricted stock grant subject to the Issuer's lapsing forfeiture right, which lapses as to 50% of the shares on each of December 18, 2015 and December 18, 2016, provided the Reporting Person remains employed by the Issuer on such date.
- 2. The option vests as to 25% of the shares on Decmeber 18, 2014 and as to an additional 6.25% of the shares on the last day of each successive three-month period thereafter.

/s/ Garrett Winslow, Attorneyin-Fact 12/20/2013

** 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.