FORM	4
------	---

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

П

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

OMB APPF	ROVAL
OMB Number:	3235-0287
Expires:	December 31, 2014
Estimated ave	erage burden
hours per response	0.5

1. Name and Address of Reporting Person <sup>*</sup> Ehrlich Keith S			2. Issuer Name <b>and</b> Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA]					
CORP., 45 HA	(First) (Middle)		3. Date of Earliest Transaction (Month/Day/Year) 09/13/2012	(Check all applicable) Director 10% Owner X Officer (give title below) VP, Fin. and Admin., CFO				
		02421 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	<ul> <li>6. Individual or Joint/Group Filing</li> <li>(Check Applicable Line)</li> <li>X Form filed by One Reporting Person</li> <li>Form filed by More than One</li> <li>Reporting Person</li> </ul>				

	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned											
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Beneficially Owned	6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership		
			Code	v	Amount	Amount (A) or (D) Price		Following Reported Transaction(s) (Instr. 3 and 4)	or Indirect (I) (Instr. 4)	(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. Deemed Execution Date, if any (Month/Day/Year)	Code	Transaction Number of Code Derivative		and Expiration		Amount of Underlying		8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Employee Stock Option (Right to Buy)	\$ 8.05	09/13/2012		A		15,000		(1)	09/13/2022	Common Stock	15,000	\$0	15,000	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 Margaret09/17/2012Eagleston, Attorney-in-Fact\*\* Signature of Reporting<br/>PersonDate

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.