FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
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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

Name and Address of Reporting Person*     Ehrlich Keith S					SYN	2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [ SNTA ]									Check	all app Direc	olicable) tor		Owner
(Last) (First) (Middle) C/O SYNTA PHARMACEUTICALS CORP.					3. Date of Earliest Transaction (Month/Day/Year) 01/05/2009										X	Officer (give title below)  VP, Fin. and A		belov	′
45 HARTWELL AVENUE					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)					
(Street) LEXINGTON MA 02421													X	Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(Sta	ate) (Z	<u>Z</u> ip)																
		Table	e I - I	Non-Deriv	ative S	Secu	rities	Acc	quired,	Dis	posed of	f, or	r Ben	efici	ally (	Owne	ed		
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Y				Year) if	Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)					, 4 and Secu		icially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	nt (A) or		Price		Repoi		(111341 . 4)	(111301. 4)
Common Stock 01/05/200					09			S <sup>(1)</sup>		5,600	D \$6.1		\$6.18	32(2)	1	4,826	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)	curity or Exercise (Month/Day/Year) if any (Month/Day/Year) Security		4. Transac Code (Ir 8)	e (Instr. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Control Expiration Date (Month/Day/Year)  Date Expiration Exercisable and Expiration Date Expiration Date			Amount of Securities Underlying Derivative Security (Insti 3 and 4)		g Instr.	nt er		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## 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 September 15, 2008, and were made to fund certain out-of-pocket tax withholding liabilities associated with the vesting of restricted stock granted on December 21, 2004.
- 2. This transaction was executed in multiple trades at prices ranging from \$6.11 to \$6.264 per share. The price reported above reflects the weighted average sale price. The Reporting Person hereby undertakes to provide upon request to the SEC staff, the Issuer, or a security holder of the Issuer, full information regarding the number of shares and prices at which the transaction was effected.

/s/ Ann Margaret Eames, Attorney-in-Fact 01/06/2009

\*\* 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.