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

(Last)	SON Eric (FI NTA PHAR FWELL AN	rst) (MACEUTICALS /ENUE	Middle)).	SYN SNTA 3. Dat 04/13	Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [NTA] Date of Earliest Transaction (Month/Day/Year) 4/13/2009 If Amendment, Date of Original Filed (Month/Day/Year)							6.	Relationship of Reporting Person(s) to Issuer heck all applicable) Director 10% Owner X Officer (give title Other (specify below) below) Sr. VP, Research and CMO Individual or Joint/Group Filing (Check Applicable) X Form filed by One Reporting Person Form filed by More than One Reporting Person				wner specify pplicable
		Tab	le I - N	on-Deriv	ative S	Sec	urities	Ac	quired, D	isp	osed o	of, or Bo	eneficia	Ily Owne	d			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						ion 2A. Deemed Execution Date,					4. Securities Acquired Disposed Of (D) (Instr. and 5)) or 5. Amount of		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	3. Transaction Date (Month/Day/Year)	3A. Dee Execution if any (Month/	n Date, T	4. Transact Code (In 8)		ion of E		6. Date Exercisab Expiration Date Month/Day/Year)			Amount o		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownership Form: Direct (D) or Indirec (I) (Instr. 4)		Beneficial Ownership
					Code	v	(A)	(D)	Date Exercisable		piration te	Title	or Number of Shares					
Employee Stock Option (Right to Buy)	\$2.49	04/13/2009			A		47,112		(1)	04/	/13/2019	Common Stock	47,112	\$0	47,112		D	

Explanation of Responses:

1. The option vests as to 50% of the shares on January 13, 2010 and as to the remaining 50% of the shares on October 13, 2010.

<u>/s/ Ann Margaret Eames.</u> <u>Attorney-in-Fact</u> <u>04/14/2009</u>

** 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.

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