FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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 [*] Chadwick Jeremy G (Last) (First) (Middle) C/O SYNTA PHARMACEUTICALS CORP. 45 HARTWELL AVENUE (Street) LEXINGTON MA 02421 (City) (State) (Zip)					SNTA 3. Dat 04/13	2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA] 3. Date of Earliest Transaction (Month/Day/Year) 04/13/2009 4. If Amendment, Date of Original Filed (Month/Day/Year)								6. I	x Office below Sr. VI Individual o e) X Form Form	ationship of Reporting Person(s) to Issuer (all applicable) Director 10% Owner Officer (give title Other (specify below) below) Sr. VP, Pgm Mgmt and Clin Ops vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person 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) Date (Month/Day						Exe if a	A. Deemed kecution Date, any lonth/Day/Year)		3. Transaction Code (Instr. 8)			4. Securities Acquired Disposed Of (D) (Instr. and 5)			Securi Benefi Owned	cially	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amoun	Amount (A) or (D) P		Price	Report Transa	Following Reported Transaction(s) (Instr. 3 and 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. Conversio or Exercise Price of Derivative Security		if any	on Date,	4. Transact Code (In 8)		on of I		3. Date Exercisable an Expiration Date Month/Day/Year)			d 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		tr. 3	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	y Direct (D) or Indirec (I) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr.	Beneficial Ownership
					Code	v	(A)		Date Exercisable		piration ate	Title	or Nu of	ımber					
Employee Stock Option (Right to Buy)	\$2.49	04/13/2009			А		42,900		(1)	04	//13/2019	Commo Stock		2,900	\$0	42,900		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.

/s/ Ann Margaret Eames,

04/14/2009

Attorney-in-Fact ** 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.

Check this box if no longer subject to Section 16. Form 4 or Form 5