FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
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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* Chadwick Jeremy G (Last) (First) (Middle) C/O SYNTA PHARMACEUTICALS CORP. 45 HARTWELL AVENUE						2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA] 3. Date of Earliest Transaction (Month/Day/Year) 03/01/2010 4. If Amendment, Date of Original Filed (Month/Day/Year)								(Ch	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) Sr. VP, Pgm Mgmt and Clin Ops 6. Individual or Joint/Group Filing (Check Applical Line)				
(Street) LEXING (City))2421 Zip)		,									X Form filed by One Reporting Person Form filed by More than One Reporting Person					
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Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day)					ction	ion 2A. Deemed Execution Date,				quired, Disposed of, 3. Transaction Code (Instr. 8) 4. Securitie Disposed (and 5)				d (A) o		ount of ties cially	Forr (D) d Indi	m: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	Amoun	nt (A) or (D)		Price	Report Transa			,						
Common	2010		A		7,908(1)		A	\$ <mark>0</mark> 0	23	3,761		D							
		T	able II						uired, Dis						Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	version Date (Month/Day/Year) in the configurative (Month/Day/Year)		iA. Deemed Execution Date, f any Month/Day/Year)		ion str.	n of E		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		r. 3	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr.	Beneficial Ownership
					Code	V (A) (D)		Date Ex		piration te	l o		mber ares						
Employee Stock Option (Right to Buy)	\$4.02	03/01/2010			A		73,425		(2)	03.	/01/2020	Commo	ⁿ 73	,425	\$0	73,425		D	

Explanation of Responses:

- 1. Represents a restricted stock grant subject to the Issuer's lapsing forfeiture right, which lapses as to 100% of the shares on March 1, 2011, provided the Reporting Person remains employed by the Issuer on such date.
- 2. The option vests as to 25% of the shares on March 1, 2011 and as to an additional 6.25% of the shares on the last day of each successive three-month period thereafter.

/s/ Ann Margaret Eames, Attorney-in-Fact

03/03/2010

** 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.