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

1. Name and Address of Reporting Person* BAILEY MICHAEL P (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)								(Che	Direct Office below Sr. dividual or	or 10% r (give title Oth) belc VP, Chief Comm. Offi		10% Or Other (s below) nm. Officer	wner specify r pplicable
(Street)	TON M	Α ()2421)	Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(S	tate) (Zip)																
		Tab	le I - N	on-Deriv	ative S	Sec	urities	Ac	quired, [Disp	osed o	of, or E	Benef	iciall	y Owne	d			
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day					Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquire Disposed Of (D) (Instrand 5)					3, 4 Securi Benefi Owned		ies cially	Forr (D) d Indi	m: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amoun	it (A) or (D)		Price				tr. 4)	(Instr. 4)
Common Stock 03/01/2						.010		A		8,627(1)		A	\$0 ⁽¹⁾	33,627			D		
		T	able II						uired, Di						Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date Execution Month/Day/Year) (Month/		on Date,		ansaction		n of E		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr.) and 4)		3. 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	Amo or Num of Shar	nber					
Employee Stock Option (Right to Buy)	\$4.02	03/01/2010			A		80,100		(2)	03.	/01/2020	Commo Stock	80,	100	\$0	80,100		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.