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* REARDON WILLIAM S					SY	2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA]										heck all a	ionship of Reporting all applicable) Director		Person(s) to Issuer 10% Owner	
(Last)	`	rst) (Middle)).		3. Date of Earliest Transaction (Month/Day/Year) 07/01/2009											Officer (give title below)		Other (specify below)	
45 HAR	TWELL AV	/ENUE			4. If A									6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) LEXINGTON MA 02421																Fo	,			
(City)	(St	tate) (Zip)																	
		Tab	le I - N	on-Deriv	ative S	Sec	uritie	s A	cquire	ed, [Disp	osed	of, or	Bene	eficia	ally Ow	ned			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				Exe if a	Deeme ecution iny onth/Da	Date,	Cod	Transaction Disposed Of (D) (Instr. Code (Instr. and 5)				Sec Ben Owr		Fo (D)	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership				
										de	v	Amou	mount (A) or		Price	Rep Trai	Following Reported Transaction(s) (Instr. 3 and 4)		ıstr. 4)	(Instr. 4)
Common	Stock			07/01/2	2009				1	4		4,20	1(1)	A	\$0	(1)	8,376 D			
		Ta	able II	- Derivat (e.g., p												y Owne	d			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Dee Execution if any (Month/	on Date,	4. Transaci Code (In 8)		of Deriva Secur Acqui (A) or Dispo of (D) (Instr.	Number of (I) Derivative Securities Acquired (A) or Disposed		i. Date Exercisab :xpiration Date Month/Day/Year)			Amour Securit Underl Derivat		Title and mount of ceurities ederlying srivative ceurity (Instr. 3 dd 4)		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	sable		oiration e	Title	or Nu of	ount mber ares					
Director Stock Option (Right to Buy)	\$2.38	07/01/2009			A		5,500		(2)		07/0	01/2019	Commo	ⁿ 5,	500	\$0	5,500		D	

Explanation of Responses:

- 1. Represents a restricted stock grant subject to the Issuer's lapsing forfeiture right, which lapses as to 25% of the shares on each of September 30, 2009, December 31, 2009, March 31, 2010 and June 30, 2010, provided the Reporting Person continues to serve as a director of the Issuer on such date.
- 2. The option vests as to 25% of the shares on each of September 30, 2009, December 31, 2009, March 31, 2010 and June 30, 2010, provided the Reporting Person continues to serve as a director of the Issuer on such date.

/s/ Ann Margaret Eames, Attorney-in-Fact 07/06/2009

** Signature of Reporting Person Dat

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.