X

FORM 5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Form 3 Holdings Reported.

Form 4 Transactions Reported.

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL OMB Number: 3235-0362 Estimated average burden hours per response 1.0

ANNUAL 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 [*] Singh Amar				2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA]								ck all app Direc	nship of Reporting Po applicable) Director		10%	o Owner	
(Last) (First) C/O SYNTA PHARMACEUTICAL			Middle) S CORP.	3. Statemen 12/31/202	atement for Issuer's Fiscal Year Ended (Month/Day/Year) 1/2013					Х	X belo	ficer (give title low) 5. VP, Chief Busi		belo	<i>'</i>		
45 HARTWELL AVENUE				4. If Amendment, Date of Original Filed (Month/Day/Year)						6. In Line)	6. Individual or Joint/Group Filing (Check Applic Line)			k Applicable			
(Street)	TON MA	A ()2421									Х	-	filed by O filed by M on			
(City)	(Sta	nte) (2	Zip)														
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3)			Date	2A. Deemed Execution Date, if any		3. Transaction Code (Instr.		4. Securities Acquired (A) or Disp Of (D) (Instr. 3, 4 and 5)			posed 5. Amo Securit Benefic		ties Ov		ership	7. Nature of Indirect Beneficial	
				(Month/Day/Ye		8)	iisti.	Amoun		(A) or (D)	Price			at end of Fiscal	Direc	ct (D) or rect (I)	Ownership (Instr. 4)
Common Stock			12/02/2013		\$5			5,870		D	\$4.9964		15,161			D	
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. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	of Deri Secu Acqu (A) o Disp of (D	osed) r. 3, 4	Expir (Mon	tte Exerci ration D th/Day/` cisable	Year) Expiratio	Ame Sec Unc Der Sec 3 ar	itle and ount of urities derlying ivative urity (Instr id 4) Amou or Numb of share	r. nt er	. Price f erivative ecurity nstr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	s Ily J	10. Ownersh Form: Direct (D or Indire (I) (Instr. 4)	Beneficial Ownership

Explanation of Responses:

/s/ Garre	ett M.	Wins	low,
Attorne	y-in-F	act	

02/13/2014

** 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.