FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

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 ar Kovnei (Last)	SNTA 3. Dat	2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA] 3. Date of Earliest Transaction (Month/Day/Year) 01/08/2010									Relationship of Reportin Check all applicable) X Director Officer (give title below)				X 10% C	Owner (specify					
500 PARK AVENUE (Street) NEW YORK NY 10022					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									ne) X	Form Form	al or Joint/Group Filing (Check Applicable orm filed by One Reporting Person orm filed by More than One Reporting erson				
(City)	(St		Zip)														•				
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day					tion	ion 2A. Deemed Execution Date,			Juired, Disposed of, 3.				Acquire	d (A)	(A) or 5. Am 3, 4 Secur		ount of ties cially	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code	v	Amount		(A) or (D)	Price	, F	Reported Transaction(s) (Instr. 3 and 4)		,,		(
Common Stock 01/08/						.010			P		550,00	00	A	\$4.5		1,500,673		D			
Common Stock																7,7	61,716		I	By CxSynta LLC ⁽¹⁾	
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)	tive Conversion Date Execution Date, ty or Exercise (Month/Day/Year) if any				4. Transaction Code (Instr. 8)				6. Date Exercisable a Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)					9. Number of derivative securities Beneficially Owned Following Reported Transaction ((Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	or Nun of	ber							

Explanation of Responses:

1. These shares are owned directly by CxSynta LLC and indirectly by the Reporting Person as Chairman of Caxton Corporation, the managing member of CxSynta LLC. The Reporting Person disclaims beneficial ownership of these securities except to the extent of his pecuniary interest therein, and the inclusion of these shares in this report shall not be deemed an admission of the beneficial ownership of all of the reported shares for purposes of Section 16 or for any other purpose.

/s/ Scott B. Bernstein, Attorney-in-Fact

01/12/2010

** 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.