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* Kovner Bruce (Last) (First) (Middle) C/O CAXTON ASSOCIATES LP					2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA] 3. Date of Earliest Transaction (Month/Day/Year) 08/22/2011									Relationship of Reporting Person(s) to Issuer Check all applicable) X Director X 10% Owner Officer (give title below) Other (specify below)					
500 PARK AVENUE (Street) NEW YORK NY 10022 (City) (State) (Zip)				4. If <i>i</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)								S. Indiv Line) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Table	e I - Non-Deriv	ative	Secu	ırities	Acc	quire	ed, D	isposed o	f, or	Benefic	ially	Owne	ed				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Yea	Exe er) if a	2A. Deemed Execution Date, if any (Month/Day/Year)		Co	Transaction Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a			Securities Beneficially Owned		rities ficially ed	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership	
						Co		de	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)	
Common	08/22/2011	1				P		10,597	A	\$3.771	2(1)(5) 4,907,168(2)		D						
Common Stock 0			08/23/2011	1				P		5,167 A \$3.		\$3.720	8 ⁽³⁾⁽⁵⁾ 4,912		912,335		D		
Common Stock													7,0	7,761,716		I	By CxSynta LLC ⁽⁴⁾		
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)	Code (ransaction of Derivation (A) or Dispos of (D) (Instr. and 5)			Expi (Mo	iration nth/Day	ay/Year) Securities Underlying Derivative Security (Inst 3 and 4) Amou or Numb		nt of ities rlying ative ity (Instr. 4) Amount or Number	Secu (Inst	derivative securities urity Beneficially		Ov Fo Di or (I) 4)	wnership orm: rect (D) Indirect (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

- 1. The shares were purchased in multiple transactions at prices ranging from \$3.75 to \$3.79 per share. The price reported above is the weighted average purchase price. See footnote (5)
- 2. The amount of securities beneficially owned following the reported transaction reflects an increase of two shares that were inadvertently omitted from the Reporting Person's Form 3 filed on February 5, 2007 and subsequent Form 4s prior to the date hereof due to an administrative rounding error.
- 3. The shares were purchased in multiple transactions at prices ranging from \$3.69 to \$3.75 per share. The price reported above is the weighted average purchase price. See footnote (5)
- 4. 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 shares 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.
- 5. The Reporting Person hereby undertakes to provide upon request to the staff of the SEC, the Issuer or a security holder of the Issuer, full information regarding the number of shares purchased at each separate price within the range set forth above.

/s/ Scott B. Bernstein, 08/24/2011 Attorney-in-Fact

** 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.