

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, Section 17(a) of the Public Utility Holding Company Act of 1935 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 CORPORATION, 731 ALEXANDER ROAD, BLDG 2 (Street) PRINCETON NJ 08540 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) ☒ Director ☒ 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 11/12/2012	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	11/12/2012		P		27,200	A	\$ 6.8915 ⁽¹⁾	937,200 ⁽²⁾	I	By KFO Holdings LLC ⁽³⁾
Common Stock	11/14/2012		P		10,500	A	\$ 6.9532 ⁽⁴⁾	947,700	I	By KFO Holdings LLC ⁽³⁾
Common Stock								7,096,852 ⁽⁵⁾	D	
Common Stock								125,000	I	By Kovner 2011-A Investment Trust
Common Stock								125,000	I	By Kovner 2011-B Investment Trust
Common Stock								125,000	I	By Kovner 2011-C Investment Trust
Common Stock								125,000	I	By Kovner 2011-D Investment Trust
Common Stock								475,000	I	By Kovner 2012-A Synta Investment Trust

Common Stock								475,000	I	By Kovner 2012-B Synta Investment Trust
Common Stock								475,000	I	By Kovner 2012-C Synta Investment Trust
Common Stock								475,000	I	By Kovner 2012-D Synta Investment Trust
Common Stock								7,761,716	I	By CxSynta LLC ⁽⁶⁾

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)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

Explanation of Responses:

- The shares were purchased in multiple transactions at prices ranging from \$6.86 to \$6.96 per share. The price reported above is the weighted average purchase price. 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.
- Includes 910,000 shares of Common Stock reported incorrectly on a Form 4 filed on July 2, 2012 as directly owned by the Reporting Person. See Notes 3 and 5.
- These shares are owned directly by KFO Holdings LLC ("KFO") and indirectly by the Reporting Person as the sole member of KFO.
- The shares were purchased in multiple transactions at prices ranging from \$6.92 to \$6.98 per share. The price reported above is the weighted average purchase price. 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.
- Excludes 910,000 shares of Common Stock previously reported incorrectly on a Form 4 filed July 2, 2012 as directly owned by the Reporting Person that are directly owned by KFO Holdings LLC and indirectly owned by the Reporting Person. See Notes 2 and 3.
- These shares are owned directly by CxSynta LLC and indirectly by the Reporting Person as chairman and sole shareholder 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.

/s/ Bruce Kovner

11/14/2012

** 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.