FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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 Addre) Person [*]	2. Issuer Name and Ticker or Trading Symbol <u>SYNTA PHARMACEUTICALS CORP</u> [SNTA]		tionship of Reporting P all applicable) Director	10% Owner		
(Last) C/O SYNTA PH	ast) (First) (Middle) O SYNTA PHARMACEUTICALS CORP.		3. Date of Earliest Transaction (Month/Day/Year) 07/01/2010	1	Officer (give title below)	Other (specify below)		
45 HARTWELL AVENUE (Street) LEXINGTON MA 02421		02421	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line) X	,			
(City)	(State)	(Zip)	ivative Securities Acquired. Disposed of. or Benef	icially	Ownod			

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	 3. Transaction Code (Instr. 8)		4. Securities Disposed Of and 5)			5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
		Code	v	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)
Common Stock	07/01/2010	Α		7,722 ⁽¹⁾	Α	\$0 ⁽¹⁾	472,399	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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1. Title of Derivative Security (Instr. 3)		Conversion Date Execution Date, If any Code (Instr. of Derivative Security Derivative Security Code (Instr. of Derivative Security Code (Instr. of Derivative Security Code (Instr. of Code (I		Numb	sed 3,			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Director Stock Option (Right to Buy)	\$2.59	07/01/2010		A		5,500		(2)	07/01/2020	Common Stock	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, 2010, December 31, 2010, March 31, 2011 and June 30, 2011, 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, 2010, December 31, 2010, March 31, 2011 and June 30, 2011, provided the Reporting Person continues to serve as a director of the Issuer on such date.

/s/ Ann Margaret Eames, Attorney-in-Fact

07/06/2010

Date ** Signature of Reporting Person

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.

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