FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
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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* Koya Keizo (Last) (First) (Middle) C/O SYNTA PHARMACEUTICALS CORP. 45 HARTWELL AVENUE (Street) LEXINGTON MA 02421 (City) (State) (Zip)						2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA] 3. Date of Earliest Transaction (Month/Day/Year) 03/06/2012 4. If Amendment, Date of Original Filed (Month/Day/Year)								Relationship of Reporting Person(s) to Issuer heck all applicable) Director 10% Owner X Officer (give title Other (specify below) below) Sr. VP, Drug Development Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person				wner specify spplicable
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day					ction	Execution Date,				on str.	4. Securities Acquired Disposed Of (D) (Instr. and 5)			a) or 5. Amount of		Fo (D)	Ownership rm: Direct) or direct (I) str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
(e.g., pu 1. Title of 2. 3. Transaction 3A. Deemed 4 Derivative Conversion Date Execution Date, T						tts, calls, warrants, 5. Number of of Ode (Instr. Derivative (uired, Disposed of, or Benefici , options, convertible securitie 6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and Amount of Securities Underlying					8. Price of Derivati Security	9. Numl derivati ve Securiti	ve es	Ownership Form:	11. Nature of Indirect Beneficial Ownership
(111311. 3)	Derivative Security		(MOTION)	Day/Teal/	3 ,		Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Γ		Derivative Security and 4)	(Instr. 3	(Instr. 5		ng ed etion(s)	or Indirect (I) (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable	Ex Da	piration te	Title	or Number of Shares					
Employee Stock Option (Right to Buy)	\$4.22	03/06/2012			A		63,036		(1)	03/	/06/2022	Common Stock	63,036	\$0	63,0)36	D	

Explanation of Responses:

1. The option vests as to 25% of the shares on March 6, 2013 and as to an additional 6.25% of the shares on the last day of each successive three-month period thereafter.

/s/ Ann Margaret Eames, Attorney-in-Fact 03/08/2012

** 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.