## 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 and Addre	ess of Reporting Pe ALD W	erson*	2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [ SNTA ]		tionship of Reporting Pers all applicable) Director Officer (give title	on(s) to Issuer 10% Owner Other (specify below)			
(Last) C/O SYNTA PH	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 07/25/2012		below)				
45 HARTWELL AVENUE (Street) LEXINGTON MA 02421			4. If Amendment, Date of Original Filed (Month/Day/Year)	<ul> <li>6. Individual or Joint/Group Filing (Check Applicable Line)</li> <li>X Form filed by One Reporting Person</li> <li>Form filed by More than One Reporting Person</li> </ul>					
(City)	(State)	(Zip)							
	Т	able I - Non-Deriva	ative Securities Acquired, Disposed of, or Benefi	cially	Owned				

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Disposed Of and 5)			Securities Beneficially Owned	Form: Direct (D) or Indirect (I)	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	07/25/2012	Α		4,622	A	<b>\$6.49</b>	11,934	D	

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

			(e.g., p	uts, cai	ts, cans, warrants, opuons, 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. Transaci Code (In 8)		of Deriv Secu Acqu (A) of Dispo of (D)	vative rities lired r osed ) . 3, 4	6. Date Exer Expiration D (Month/Day/	ate	Amour Securi Under Deriva	nt of ties lying tive ty (Instr.	of	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

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

07/27/2012

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 $^{\ast}$  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.