FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL								
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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 an WILSO (Last)	2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [ SNTA ] 3. Date of Earliest Transaction (Month/Day/Year)									(Ch	eck all a  X Dir  Of	ship of Reporti pplicable) ector ficer (give title low)	ng Perso	Person(s) to Issuer  10% Owner  Other (specify below)					
C/O SYNTA PHARMACEUTICALS CORP.						04/14/2011										,		,	
45 HARTWELL AVENUE						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street)															X Fo	Form filed by One Reporting Person			
LEXING	ZINGTON MA 02421															Form filed by More than One Reporting Person			
(City)	(St	ate) (Z	Zip)																
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day)						Execution Date,			3. Transaction Code (Instr. 8)  4. Securities Acquired (Disposed Of (D) (Instr. and 5)					Sec Ben Owr	mount of urities eficially ned owing	6. Owner Form: I (D) or Indirect (Instr. 4	Direct	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	Amount		A) or D)	Price	Rep Trai	orted nsaction(s) tr. 3 and 4)	(iiisii	,	(111501. 4)				
Common Stock 04/14/20						2011			P		50,00	0	A	\$4.8	9	522,399	D	)	
	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)	rivative Conversion or Exercise Price of Derivative Security  Derivative Security  Date (Month/Day/Year) if any (Month/Day/Year)			Code (Ir	saction of de (Instr. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Date Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amount or Numbor Of Title Shares		ount	3. Price derivative Security Henstr. 5)  Respective Securities Securities Henstr. 5)  Reported Transactio (Instr. 4)		Own Fori Dire or II (I) (I 4)	ership n: ct (D) ndirect nstr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

/s/ Ann Margaret Eames, Attorney-in-Fact 04/18/2011

\*\* Signature of Reporting Person Date

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

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.

 $<sup>^{\</sup>star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).