FORM 5								0145 4 55		
Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b). Form 3 Holdings Reported. Form 4 Transactions Reported.	ANNUAL ST	ATEMENT OF C to Section 16(a) o blic Utility Holding	ington, D.C CHANGES	ION ON Exp RSHIP Iss Section	OMB APP IB Number: pires: timated avera urs per ponse	3235-0362 January 31, 2014				
1. Name and Address of Rep Gollust Keith R (Last) (First) C/O SYNTA PHARMACEU CORP., 45 HARTWELL AV	<ul> <li>2. Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA]</li> <li>3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)</li> <li>12/31/2007</li> </ul>					5. Relationship of Reporting Persolssuer (Check all applicable) X Director 10% C Officer (give title below) below)				
(Street) LEXINGTON MA (City) (State)	02421 (Zip)	4. If Amendme (Month/Day/Ye		Original Fil		eck Applicable Form filed t Person Form filed t	ividual or Joint/Group Filing k Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person			
Tak	ole I - Non-Deriva	tive Securities /	Acquired,	Disposed o	of, or	Beneficia	Ily Owned			
1. Title of Security (Instr. 3)	2. Transaction Date(Month/Day/Year)	2A. Deemed Execution Date, if	3. Transaction Code (Instr. <sup>8)</sup>	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an			5.Amount of Securities	6. Ownership Form: Direct		
		any(Month/Day/Year)		Amount	(A) or (D)	Price	Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	(D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)	
Common Stock	08/21/2007		G	50,000	D	\$0	0	1	By Gollust Trust	
Common Stock	08/21/2007		G	50,000	A	\$ 0	1,380,970	I.	By Wyandanch Partners, L.P. (1)	

39,176

D

Common Stock

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)														
1. Title of Derivative 2. Security (Instr. 3) Convers or Excerci		(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 Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security	9. Number of derivative Securities Beneficially	10. Ownership Form: Direct (D)	11. Nature of Indirect Beneficial
	Price of Derivative Security				(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	(Instr. 5)	Owned Following Reported Transaction(s) (Instr. 4)	or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Director Stock Option (Right to Buy)	\$ 10.843	12/13/2007		<sub>D4</sub> (2)		28,125	(3)	05/27/2014	Common Stock	28,125	<b>\$</b> 0	46,875	D	
Director Stock Option (Right to Buy)	\$ 16	12/13/2007		<sub>A4</sub> (2)	28,125		(3)	05/27/2014	Common Stock	28,125	<b>\$</b> 0	28,125	D	

## **Explanation of Responses:**

1. The Reporting Person disclaims beneficial ownership of these securities except to the extent of his pecuniary interest therein, if any, 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.

2. The Reporting Person has voluntarily amended a common stock option agreement reflecting a May 27, 2004 grant for 75,000 shares at an exercise price of \$10.843. The amendment provides that effective as of December 13, 2007, the exercise price for the portion of the option that vests on or after January 1, 2005 - 28,125 shares - has been increased from \$10.843 to \$16.00. For Section 16(a) purposes, the Reporting Person is reporting this amendment as a cancellation of the affected portion of the original option and the grant of a replacement option. The Reporting Person received no consideration in connection with this amendment.

3. The option vested as to 50% of the shares on May 27, 2004 and as to an additional 6.25% of the shares on the last day of each successive three-month period thereafter and is currently fully vested.

/s/ Ann Margaret Eames,<br/>Attorney-in-Fact02/14/2008\*\*\* Signature of Reporting<br/>PersonDate

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 See18 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.