UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIESM

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL

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1. Name and Address of Reporting Person*	2. Date of Event Requiring Statement (Month/Day/Year) 02/05/2007	Issuer Name and Ticker or Trading Symbol SYNTA PHARMACEUTICALS CORP [SNTA]			
Chadwick Jeremy G		4. Relationship of Reporting Person(s) 5. If Amendment, Date of to Issuer Original Filed (Month/Day/Year)			
(Last) (First) (Middle) C/O SYNTA PHARMACEUTICALS CORP., 45 HARTWELL AVENUE (Street)		(Check all applicable) Director Other (Specify below) Sr. VP. Program Momt and Ons			
(City) (State) (Zip)		Sr. VP, Program Mgmt and Ops One Reporting Person			

Table I - Non-Derivative Securities Beneficially Owned								
,	2. Amount of Securities Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)					
Common Stock	20,599 (1)	D						

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)										
(Instr. 4)		sable and tion Date n/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		or Excercise	. , , ,	Beneficial Ownership			
	Date Exercisable	Expiration Date	Title	Amount or Number of SharesM	Price of Derivative Security	or Indirect (I) (Instr. 5)	(Instr. 5)			
Employee Stock Option (Right to Buy)	(2)	05/27/2014	Common Stock	37,500 (3)	\$ 14 ⁽³⁾	D				
Employee Stock Option (Right to Buy)	(4)	02/15/2015	Common Stock	14,575 (3)	\$ 14 ⁽³⁾	D				
Employee Stock Option (Right to Buy)	(5)	02/15/2016	Common Stock	32,142	\$ 14 ⁽³⁾	D				

Explanation of Responses:

- 1. Reflects a 1-for-4 reverse stock split effected on February 2, 2007 in connection with the Issuer's initial public offering, pursuant to which the number of shares of Common Stock was divided by 4.
- 2. The option vested as to 25% of the shares on May 14, 2005 and as to an additional 6.25% of the shares on the last day of each calendar quarter thereafter.
- 3. Reflects a 1-for-4 reverse stock split effected on February 2, 2007 in connection with the Issuer's initial public offering, pursuant to which (i) the number of shares of Common Stock underlying the option was divided by 4 and (ii) the exercise price of the option was multiplied by 4.
- 4. The option vested as to 25% of the shares on February 15, 2006 and as to an additional 6.25% of the shares on the last day of each calendar quarter thereafter.
- 5. The option vests as to 25% of the shares on February 15, 2007 and as to an additional 6.25% of the shares on the last day of each calendar guarter thereafter.

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

** 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 5(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.

Know all by these presents, that the undersigned hereby constitutes and appoints each of Safi R. Bahcall, Ph.D., the President and Chief Executive Officer of Synta Pharmaceuticals Corp. (the "Company"), Keith S. Ehrlich, the Vice President, Finance and Administration, Chief Financial Officer of the Company, and Wendy E. Rieder, the Vice President, Intellectual Property and Legal Affairs, General Counsel of the Company, and Brian Keane, Daniel T. Kajunski, and Ann Margaret Eames of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., signing singly, with full power of substitution, the undersigned's true and lawful attorney-in-fact to:

- (1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or 10% shareholder of the Company, forms and authentication documents for EDGAR Filing Access;
- (2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such forms and authentication documents;
- (3) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or 10% shareholder of the Company, Forms 3, 4 and 5 in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;
- (4) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4 or 5 and timely file such form with the United States Securities and Exchange Commission and any stock exchange or similar authority; and
- (5) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interests of, or legally required by the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not

assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934, as amended.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-infact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed this 31st day of January 2007.

/s/ Jeremy Chadwick Signature

Jeremy Chadwick Print Name