

**FORM 5**

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.

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

**ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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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|  |  |   |
|--|--|---|
| <b>1. Name and Address of Reporting Person *</b><br><b>Chen Lan Bo</b><br><br>(Last) (First) (Middle)<br><b>184 EAST EMERSON ROAD</b><br><br>(Street)<br><b>LEXINGTON MA 02420</b><br><br>(City) (State) (Zip) | <b>2. Issuer Name and Ticker or Trading Symbol</b><br><b>SYNTA PHARMACEUTICALS CORP [SNTA]</b> | <b>5. Relationship of Reporting Person(s) to Issuer</b><br>(Check all applicable)<br><input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner<br><br>Officer (give title below) Other (specify below) |
|  | <b>3. Statement for Issuer's Fiscal Year Ended</b><br>(Month/Day/Year)<br><b>12/31/2007</b>    |   |
|  | <b>4. If Amendment, Date of Original Filed</b><br>(Month/Day/Year)                             | <b>6. Individual or Joint/Group Filing</b><br>(Check Applicable Line)<br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br>Form filed by More than One Reporting Person   |

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date(Month/Day/Year) | 2A. Deemed Execution Date, if any(Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) |            |       | 5.Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4)      |
|---------------------------------|-------------------------------------|---|--------------------------------|---|------------|-------|---|--|--|
|                                 |                                     |   |                                | Amount  | (A) or (D) | Price |   |  |  |
| Common Stock                    | 12/04/2007                          |   | G                              | 19,560  | D          | \$ 0  | 777,535 <sup>(1)</sup>  | D  |  |
| Common Stock                    | 12/04/2007                          |   | G                              | 3,260   | A          | \$ 0  | 10,210  | I  | By Alexander Chen Wu 2002 Irrevocable Trust <sup>(2)</sup> |
| Common Stock                    | 12/04/2007                          |   | G                              | 3,260   | A          | \$ 0  | 6,060   | I  | By Allison Chen Wu 2004 Irrevocable Trust <sup>(2)</sup>   |
| Common Stock                    |                                     |   |                                |   |            |       | 2,004,016   | I  | By Wisteria Trust <sup>(2)</sup>                           |
| Common Stock                    |                                     |   |                                |   |            |       | 243,481   | I  | By Ann Chen Trust <sup>(2)</sup>                           |
| Common Stock                    |                                     |   |                                |   |            |       | 243,481   | I  | By Jane Chen Trust <sup>(2)</sup>                          |
| Common Stock                    |                                     |   |                                |   |            |       | 12,946  | I  | By Chen Grandchildren's Trust <sup>(2)</sup>               |
| Common Stock                    |                                     |   |                                |   |            |       | 142,223   | I  | By LAJ Holdings LLC <sup>(2)</sup>                         |

**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) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (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 (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|--|--|-----------------|---|--|--|---|--|
|  |  |                                      |  |                                |  | Date Exercisable   | Expiration Date |   |  |  |   |  |
|  |  |                                      |  |                                | (A) (D)  |  |                 | Title   | Amount or Number of Shares                 |  |   |  |

**Explanation of Responses:**

1. Includes 55,071 shares previously reported as indirectly beneficially owned by the Lan Bo Chen 2004 GRAT which were distributed to the Reporting Person on December 29, 2007.

2. 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.

/s/ Ann Margaret Eames,      02/14/2008  
Attorney-in-Fact

\*\* Signature of Reporting      Date  
Person

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.**