

EPIX Pharmaceuticals, Inc.  
 Form 3  
 December 21, 2006

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

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

(Print or Type Responses)

|  |  |  |  |   |
|--|--|--|--|---|
| 1. Name and Address of Reporting Person *<br>Â GLAXOSMITHKLINE PLC<br>(Last) (First) (Middle)<br><br>980 GREAT WEST ROAD<br>(Street)<br><br>BRENTFORD<br>MIDDLESEX,Â X0Â TW8 9GS<br>(City) (State) (Zip) | 2. Date of Event Requiring Statement<br>(Month/Day/Year)<br>12/18/2006 | 3. Issuer Name and Ticker or Trading Symbol<br>EPIX Pharmaceuticals, Inc. [EPIX] | 4. Relationship of Reporting Person(s) to Issuer<br><br>(Check all applicable)<br><input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner<br><input type="checkbox"/> Officer <input type="checkbox"/> Other<br>(give title below) (specify below) | 5. If Amendment, Date Original Filed(Month/Day/Year)<br><br>6. Individual or Joint/Group Filing(Check Applicable Line)<br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> Form filed by More than One Reporting Person |
|--|--|--|--|---|

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security<br>(Instr. 4) | 2. Amount of Securities Beneficially Owned<br>(Instr. 4) | 3. Ownership Form:<br>Direct (D)<br>or Indirect (I)<br>(Instr. 5) | 4. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|------------------------------------|--|---|--|
| Common stock                       | 4,266,795  | I   | by Corporation <u>(1)</u> <u>(2)</u> <u>(3)</u>          |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)

**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 control number.**

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security<br>(Instr. 4) | 2. Date Exercisable and Expiration Date<br>(Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security<br>(Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security:<br>Direct (D)<br>or Indirect | 6. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|---|---|--|--|--|--|
|   | Date Exercisable  | Title  | Amount or Number of                                    |  |  |

Shares (I)  
(Instr. 5)

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |         |       |
|---|---------------|-----------|---------|-------|
|   | Director      | 10% Owner | Officer | Other |
| GLAXOSMITHKLINE PLC<br>980 GREAT WEST ROAD<br>BRENTFORD MIDDLESEX, X0 TW8 9GS | Â             | Â X       | Â       | Â     |

## Signatures

Victoria A. Whyte, Deputy Secretary  
12/21/2006

\*\*Signature of Reporting Person Date

## Explanation of Responses:

- \* 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).
  - (1) On December 18, 2006, Glaxo Group Limited ("GGL") and SmithKline Beecham Corporation ("SBCorp"), indirect wholly-owned subsidiaries of Reporting Person, purchased 1,629,689 and 1,379,338 shares of Common stock, respectively, pursuant to a Stock Purchase Agreement dated December 11, 2006 between GGL, SBCorp and the Issuer.
  - (2) S.R.One, Limited ("SRO"), another indirect wholly-owned subsidiary of Reporting Person, previously acquired 1,257,768 shares of Common stock but was not required to file under Section 16(a) of the Securities Exchange Act of 1934, as amended (the "Act").
  - (3) All shares covered by this report are beneficially owned by indirect wholly-owned subsidiaries of Reporting Person. The Reporting Person may be deemed, for purposes of Section 16 of the Act to be the beneficial owner of GGL, SBCorp and SRO and, therefore, may be deemed to be a "10 percent beneficial owner" for purposes of Section 16 of the Act.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.