

Becker Oren M  
Form 4  
August 18, 2006

**FORM 4**

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

OMB APPROVAL

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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 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 \*  
Becker Oren M

(Last) (First) (Middle)

C/O EPIX PHARMACEUTICALS, INC., 4 MAGUIRE ROAD

(Street)

LEXINGTON, MA 02421

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
EPIX Pharmaceuticals, Inc. [EPIX]

3. Date of Earliest Transaction (Month/Day/Year)  
08/16/2006

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

Chief Scientific Officer

6. Individual or Joint/Group Filing(Check Applicable Line)

Form filed by One Reporting Person  
 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 Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D) Price			
Common Stock	08/16/2006		A	3,684 A	3,684	D	

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

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SEC 1474 (9-02)

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

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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 Underlying Securities (Instr. 3 and 4)	8. Amount or Number of Shares
Stock Option (Right to Buy)	\$ 2.18	08/16/2006		A	10,527	<u>(2)</u> 08/11/2013	Common Stock	10,527
Stock Option (Right to Buy)	\$ 2.18	08/16/2006		A	5,045	<u>(3)</u> 08/11/2013	Common Stock	5,045
Stock Option (Right to Buy)	\$ 2.18	08/16/2006		A	1,836	<u>(4)</u> 04/29/2014	Common Stock	1,836
Stock Option (Right to Buy)	\$ 0.98	08/16/2006		A	95,698	<u>(5)</u> 09/23/2014	Common Stock	95,698
Stock Option (Right to Buy)	\$ 0.98	08/16/2006		A	22,456	<u>(6)</u> 09/23/2014	Common Stock	22,456
Stock Option (Right to Buy)	\$ 0.98	08/16/2006		A	69,549	<u>(7)</u> 01/18/2015	Common Stock	69,549
Stock Option (Right to Buy)	\$ 1.74	08/16/2006		A	10,948	<u>(8)</u> 04/28/2015	Common Stock	10,948

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Becker Oren M C/O EPIX PHARMACEUTICALS, INC.			Chief Scientific Officer	

4 MAGUIRE ROAD  
LEXINGTON, MA 02421

## Signatures

/s/ Michael Berdik  
Attorney-in-Fact

08/18/2006

\*\*Signature of Reporting Person

Date

## Explanation of Responses:

\* 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).

(1) Received in exchange for 4,457 shares of Predix Pharmaceuticals Holdings, Inc. ("Predix") common stock based on an exchange ratio of 0.826702 in connection with the merger of EPIX Pharmaceuticals, Inc. ("EPIX") and Predix (the "Merger") and after EPIX having effected a 1 for 1.5 reverse stock split. On the effective date of the Merger, the closing price of EPIX's common stock was \$4.85 per share.

(2) Received in the Merger in exchange for a stock option to acquire 12,735 shares of Predix common stock for \$1.80 per share. The terms and provisions of the Predix option plan under which this option was granted will continue to apply to this option. The option vests over a four year period at a rate of 25% on July 31, 2004, and the balance vesting in equal annual installments over the remaining three years.

(3) Received in the Merger in exchange for a stock option to acquire 6,104 shares of Predix common stock for \$1.80 per share. The terms and provisions of the Predix option plan under which this option was granted will continue to apply to this option. The option vested in full on August 8, 2003.

(4) Received in the Merger in exchange for a stock option to acquire 2,222 shares of Predix common stock for \$1.80 per share. The terms and provisions of the Predix option plan under which this option was granted will continue to apply to this option. The option began vesting in 16 quarterly installments of 6.25% each on July 29, 2004.

(5) Received in the Merger in exchange for a stock option to acquire 115,764 shares of Predix common stock for \$0.81 per share. The terms and provisions of the Predix option plan under which this option was granted will continue to apply to this option. The option vested in full on November 1, 2004.

(6) Received in the Merger in exchange for a stock option to acquire 27,165 shares of Predix common stock for \$0.81 per share. The terms and provisions of the Predix option plan under which this option was granted will continue to apply to this option. The option vested in full on November 1, 2004.

(7) Received in the Merger in exchange for a stock option to acquire 84,133 shares of Predix common stock for \$0.81 per share. The terms and provisions of the Predix option plan under which this option was granted will continue to apply to this option. The option began vesting in 48 approximately equal monthly installments on February 18, 2005.

(8) Received in the Merger in exchange for a stock option to acquire 13,244 shares of Predix common stock for \$1.44 per share. The terms and provisions of the Predix option plan under which this option was granted will continue to apply to this option. The option began vesting in 48 approximately equal monthly installments on August 1, 2005.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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