

Protalix BioTherapeutics, Inc.  
Form 4  
October 21, 2009

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
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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 \*  
Aviezer David

(Last) (First) (Middle)

C/O PROTALIX  
BIOTHERAPEUTICS, INC., 2  
SNUNIT STREET, SCIENCE  
PARK, POB 455

(Street)

CARMIEL, L3 20100

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
Protalix BioTherapeutics, Inc. [PLX]

3. Date of Earliest Transaction  
(Month/Day/Year)  
10/19/2009

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)  
CEO and President

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 Indirect Ownership (Instr. 4) |   |              |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|---|--------------|
|                                 |                                      |  | Code                           | V   | Amount or Price (A) or (D)  |  |  |   |              |
| Common Stock                    | 10/19/2009                           |  | S                              |   | 150,000<br>(1)  | D  | \$ 9.43 0 (2)                              | I | By Trust (3) |
| Common Stock                    | 10/20/2009                           |  | S                              |   | 60,000<br>(1)   | D  | \$ 9.45 0 (2)                              | I | By Trust (3) |
| Common Stock                    | 10/21/2009                           |  | S                              |   | 34,238<br>(1)   | D  | \$ 9.36 0 (2)                              | I | By Trust (3) |
| Common Stock                    | 10/21/2009                           |  | M                              |   | 247,490   | A  | \$ 0.12 0 (2)                              | I | By Trust (3) |
|                                 | 10/21/2009                           |  | F                              |   | 3,253   | D  | 0 (2)                                      | I |              |

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Common Stock \$ 9.13 By Trust (3)

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

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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 Underlying Securities (Instr. 3 and 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
|  |  |                                      |  | Code                           | V (A) (D)   | Date Exercisable Expiration Date                         | Title Amount or Number of Shares                              |
| Stock Options (Right to Buy)               | \$ 0.12  | 10/21/2009                           |  | M                              | 247,490   | (4) 12/08/2013   | Common Stock 247,490  |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |                   |       |
|--|---------------|-----------|-------------------|-------|
|  | Director      | 10% Owner | Officer           | Other |
| Aviezer David<br>C/O PROTALIX BIOTHERAPEUTICS, INC.<br>2 SNUNIT STREET, SCIENCE PARK, POB 455<br>CARMIEL, L3 20100 | X             |           | CEO and President |       |

## Signatures

/s/ Yossi Maimon 10/21/2009

\*\*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) The sales reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan.
- (2) The reporting person acquired 244,237 shares of common stock upon the exercise of 247,490 outstanding options on a cash-less exercise basis, all of which shares were sold by the reporting person. The Company retained 3,253 shares of common stock in connection with the cashless exercise.

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- (3) To qualify for certain tax benefits under Section 102 of the Israeli Tax Ordinance, securities issued to an employee upon the exercise of stock options must be registered in the name of a trustee.
- (4) All these options are fully vested.  
Does not include options to purchase 977,296 shares of common stock at an exercise price equal to \$0.972 per share that expire on September 10, 2016, options to purchase 600,000 shares of common stock at an exercise price equal to \$5.00 per share that expire on February 7, 2018, and options to purchase 100,000 shares of common stock at an exercise price equal to \$2.65 that expire on February 25, 2019.
- (5)

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.