

Aviezer David
 Form 4
 February 26, 2010

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

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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)

02/25/2010

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)
 President & CEO

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)	Code V Amount (D) Price		

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)		
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Options (Right to Buy)	\$ 6.9	02/25/2010		A	250,000	(1) 02/25/2020	Common Stock	250,000	

Reporting Owners

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

Signatures

/s/ Yossi Maimon, POA
Date: 02/26/2010

**Signature of Reporting Person

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).
- The options vest quarterly, in 12 equal tranches over a three-year period, commencing upon the U.S. Food and Drug Administration's marketing approval of taliglucerase alfa, if at all, and are subject to accelerated vesting upon a change in control as described in the Protalix BioTherapeutics, Inc., 2006 Stock Incentive Plan.
- (1) Does not include options to purchase 326,267 shares of common stock at an exercise price equal to \$0.12 per share that expire on December 8, 2013, 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 per share that expire on February 25, 2019.

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.