FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

washington,	D.C. 20549	
STATEMENT OF CHANGES IN	N BENEFICIAL	OWNERSHIP

D.C. 20549	OMB APPROVAL

- 1		
	OMB Number:	3235-0287
	Estimated average bur	den
	hours per response:	0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*			2. Issuer Name and Ticker or Trading Symbol Distribution of Reporting Person(s) to Issuer (Check all applicable)								er						
<u>Aviezer David</u>				<u>P</u>	Protalix BioTherapeutics, Inc. [PLX]						Ι,	Ck all applic	′		10% Owr	ner	
(Last)	(F	irst)	(Middle)	3.	Date o	of Earliest	Trans	saction (Mor	th/Day	y/Year)		 :	Officer below)	(give title		Other (sp below)	ecify
C/O PROTALIX BIOTHERAPEUTICS, INC.			02	02/25/2010						President & CEO							
2 SNUNIT STREET, SCIENCE PARK, POB 455			L														
				— 4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) CARMII	EL L	3	20100										X Form fil	ed by One F	Reportir	ng Person	
												Form filed by More than One Reporting Person				ng	
(City)	(S	tate)	(Zip)														
		Ta	ble I - Non-De	erivativ	ve Se	ecurities	s Ac	quired, [Dispo	osed o	f, or Be	neficially	/ Owned				
1. Title of Security (Instr. 3) 2. Trans. Date (Month/I			е	2A. Deemed Execution Date Day/Year) (Month/Day/Year		Code (Instr.		ed (A) or str. 3, 4 and !	5. Amount of and 5) Securities Beneficially Owned Follor Reported		orm: D	: Direct II r Indirect E str. 4) C	7. Nature of ndirect Beneficial Ownership				
								Code	v /	Amount	(A) or (D)	r Price	Transacti (Instr. 3 a	tion(s)		"	nstr. 4)
	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)	Derivative Conversion Date Execution Date, or Exercise (Month/Day/Year) if any		Code (ansaction Derivative Securities		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)	/ O Fe D O (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
				Code	v	(A)	(D)	Date Exercisable		piration te	Title	Amount or Number of Shares		(Instr. 4)	1(3)		
Stock Options (Right to Buy)	\$6.9	02/25/2010		A		250,000		(1)	02/2	25/2020	Common Stock	250,000	\$0	250,000 ⁽²	2)	D	

Explanation of Responses:

- 1. 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.
- 2. 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.

<u>/s/ Yossi Maimon, POA</u> <u>02/26/2010</u>

** Signature of Reporting Person Date

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.