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

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* Aviezer David					2. Issuer Name and Ticker or Trading Symbol Protalix BioTherapeutics, Inc. [PLX]									Relationship of Reporting Person(s) to Issuer (Check all applicable)							
(Last)	(Fi	·	(Middle)		X Director 10% Owner 3. Date of Earliest Transaction (Month/Day/Year) 10/19/2009 X Director 10% Owner X Officer (give title below) Other (specify below)																
C/O PROTALIX BIOTHERAPEUTICS, INC. 2 SNUNIT STREET, SCIENCE PARK, POB 455						1.50										CEO and President					
(Street)					- 4. 11 /	If Amendment, Date of Original Filed (Month/Day/Year)										Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person					
CARMI	EL L	3	20100		-										Form fi	Form filed by One Reporting Person Form filed by More than One Reporterson					
(City)	(S	tate) ((Zip)																		
		Tab	le I - I	Non-Deri	vative	Sec	urit	ies Ac	quired,	Dis	posed o	f, o	r Ben	eficial	y Owned	l					
Date			2. Transac Date (Month/Da	y/Year)	r) if any			3. Transac Code (Ir 8)		4. Securities Acquired (AD Disposed Of (D) (Instr. 35)				Benefici Owned	es ally	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount		(A) or (D)	Price	Followin Reporte Transac (Instr. 3	d tion(s)	(instr	. 4)	Instr. 4)		
Common	ommon Stock			10/19/2	10/19/2009						150,000(1)		D	\$9.43	3 0	0(2)			By Γrust ⁽³⁾		
Common	Stock			10/20/2	/2009				S		60,000(1)		D	\$9.43	5 0	0(2)			By Γrust ⁽³⁾		
Common	Stock			10/21/2	2009				S		34,238(1)		D	\$9.30	5 0	0(2)			By Trust ⁽³⁾		
Common	Stock			10/21/2	2009				М		247,49	0	A	\$0.12	2 0 ⁽²⁾ I				By Trust ⁽³⁾		
Common	Stock			10/21/2	2009				F		3,253		D					By Γrust ⁽³⁾			
			Tak	ole II - Der (e.g							osed of, o				wned						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any		4. Transac Code (Ir 8)	tion	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			xerci	sable and	7. Title and Amount of Securities Underlying Derivative S (Instr. 3 and		Security	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	ee es ally g	10. Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Beneficial Ownership		
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Titl	o N	mount r lumber f hares							
Stock Options (Right to	\$0.12	10/21/2009			M			247,490	(4)		12/08/2013		nmon tock	47,490	\$0	326,26	7 ⁽⁵⁾	D			

Explanation of Responses:

- 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.
- 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.
- 5. 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.

/s/ Yossi Maimon

10/21/2009

** Signature of Reporting Person

- * 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.

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