

Maimon Yossi
 Form 4
 September 08, 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 *
 Maimon Yossi

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

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)
 C/O PROTALIX
 BIOTHERAPEUTICS, INC., 2
 SNUNIT STREET, SCIENCE
 PARK, POB 455
 (Street)

3. Date of Earliest Transaction
 (Month/Day/Year)
 09/03/2010

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 VP, Chief Financial Officer

CARMIEL, L3 20100
 (City) (State) (Zip)

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

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)
				(A) or (D)	Price		
Common Stock	09/03/2010		S	38,500 (1)	D \$ 8	0 (2)	I By trust (3)
Common Stock	09/07/2010		S	31,500 (1)	D \$ 8.16	0 (2)	I By trust (3)
Common Stock	09/07/2010		M	70,000	A \$ 0.972	0 (2)	I 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)	8. Amount or Number of Shares
Stock Options (Right to Buy)	\$ 0.972	09/07/2010		M	70,000	⁽⁴⁾ 09/19/2016	Common Stock	70,000

Reporting Owners

Reporting Owner Name / Address	Relationships
Maimon Yossi C/O PROTALIX BIOTHERAPEUTICS, INC. 2 SNUNIT STREET, SCIENCE PARK, POB 455 CARMIEL, L3 20100	Director 10% Owner Officer VP, Chief Financial Officer

Signatures

/s/ Yossi Maimon 09/08/2010

**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 70,000 shares of common stock in connection with the exercise of outstanding options, all of which shares were sold by the reporting person.
- (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) 25% of the options vested on September 19, 2007. The remaining 75% vest in 12 equal quarterly installments commencing on September 19, 2007.

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- (5) Does not include (i) options to purchase 50,000 shares of common stock at an exercise price equal to \$2.65 per share that expire on February 25, 2019, (ii) options to purchase 130,000 shares of common stock at an exercise price equal to \$6.90 per share that expire on February 25, 2020 and (iii) options to purchase 175,000 shares of common stock at an exercise price equal to \$5.00 per share that expire on February 7, 2018.

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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