FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPROVAL

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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

| 1. Name and Address of Reporting Person* Bio-Cell Ltd | | | Issuer Name and Ticker or Trading Symbol Protalix BioTherapeutics, Inc. [PLX] | 5. Relationship of Reporting Person(s) to Issuer | | | | |
|---|------------------------------|-------|---|---|--|--|--|--|
| (Last) MOSHE AVIV | SHE AVIV TOWER, 7 ZABOTINSKY | | 3. Date of Earliest Transaction (Month/Day/Year) 09/16/2014 | (Check all applicable) Director X 10% Owner Officer (give Other (specif title below) below) | | | | |
| (Street) RAMAT GAN L3 52529 | | 52529 | 4. If Amendment, Date of Original Filed (Month/Day/Year) | 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting | | | | |
| (City) | (State) | (Zip) | | 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. Transac Code (Instr. 8) | | 4. Securition Acquired (Acquired (Ac | A) or of (D) |) | 5. Amount of Securities Beneficially Owned | 6. Ownership Form: Direct (D) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) | | |
| | | | Code | V | Amount | (A) or (D) | Price | Following Reported Transaction(s) (Instr. 3 and 4) | or Indirect (I) (Instr. 4) | | | |
| Common Stock | 09/16/2014 | | J ⁽¹⁾ | | 8,556,371 | D | (2) | 1,509,948 | I | By Trust | | |

| 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. Transac Code (Instr. 8 | | 5. | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and | | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |

Explanation of Responses:

- 1. The reporting person, Biocell Ltd., distributed 8,554,988 shares of common stock of Protalix BioTherapeutics, Inc., in a dividend to its shareholders on a pro rata basis based on their respective percentage interests in Biocell Ltd. Biocell Ltd. is an Israeli public company traded on the Tel Aviv Stock Exchange Ltd.
- 2. The shares were transferred to the Biocell Ltd. shareholders on a pro rata basis based on their respective percentage interests in Biocell Ltd. No consideration was paid in connection with the transfer.
- 3. Substantially all of the shares of Protalix BioTherapeutics, Inc. common stock held by Biocell Ltd. following the dividend reported in this Form 4 are held in a trust for the benefit of Biocell Ltd.

<u>/s/ Zeev Bronfeld</u> 09/18/2014

** 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.