

Protalix BioTherapeutics, Inc.  
 Form 3  
 July 17, 2008

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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)

|   |   |  |   |   |  |
|---|---|--|---|---|--|
| <p>1. Name and Address of Reporting Person *</p> <p>Â Akirov Alfred</p> <p>(Last) (First) (Middle)</p> <p>C/O PROTALIX<br/>         BIOTHERAPEUTICS, INC.,Â 2<br/>         SNUNIT STREET, SCIENCE<br/>         PARK, POB 455</p> <p>(Street)</p> <p>CARMIEL,Â L3Â 20100</p> <p>(City) (State) (Zip)</p> | <p>2. Date of Event Requiring Statement</p> <p>(Month/Day/Year)</p> <p>01/31/2008</p> | <p>3. Issuer Name and Ticker or Trading Symbol</p> <p>Protalix BioTherapeutics, Inc. [PLX]</p> | <p>4. Relationship of Reporting Person(s) to Issuer</p> <p>(Check all applicable)</p> <p><input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner<br/> <input type="checkbox"/> Officer <input type="checkbox"/> Other<br/>         (give title below) (specify below)</p> | <p>5. If Amendment, Date Original Filed(Month/Day/Year)</p> | <p>6. Individual or Joint/Group Filing(Check Applicable Line)</p> <p><input checked="" type="checkbox"/> Form filed by One Reporting Person<br/> <input type="checkbox"/> Form filed by More than One Reporting Person</p> |
|---|---|--|---|---|--|

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security<br>(Instr. 4) | 2. Amount of Securities Beneficially Owned<br>(Instr. 4) | 3. Ownership Form:<br>Direct (D)<br>or Indirect (I)<br>(Instr. 5) | 4. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|------------------------------------|--|---|--|
| Common Stock                       | 6,186,046  | I   | By Corporation <u>(1)</u>                                |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security<br>(Instr. 4) | 2. Date Exercisable and Expiration Date<br>(Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security | 4. Conversion or Exercise | 5. Ownership Form of | 6. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|---|---|--|---------------------------|----------------------|--|
|---|---|--|---------------------------|----------------------|--|

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| Date Exercisable | Expiration Date | (Instr. 4) | Amount or Number of Shares | Price of Derivative Security | Derivative Security: Direct (D) or Indirect (I) |
|------------------|-----------------|------------|----------------------------|------------------------------|---|
|                  |                 | Title      |                            |                              |   |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| Akirov Alfred<br>C/O PROTALIX BIOTHERAPEUTICS, INC.<br>2 SNUNIT STREET, SCIENCE PARK, POB 455<br>CARMIEL, L3 20100 | Â X           | Â         | Â       | Â     |

## Signatures

/s/ Yossi Maimon, POA                      07/17/2008

\_\_Signature of                      Date  
Reporting Person

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, see Instruction 5(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) All shares of common stock are held by Techno-Rov Holdings (1993) Ltd. Mr. Akirov is the Chairman of the Board and the Chief Executive Officer of the Alrov Group, which holds 80% of the capital stock of Techno-Rov Holdings. The Alrov Group is an Israeli publicly-traded company that is listed on the Tel Aviv Stock Exchange. Mr. Akirov disclaims beneficial ownership of the securities of the Issuer held, and previously reported, by Techno-Rov Holdings, except to the extent of his proportional pecuniary interest therein.

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.