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

Form 8-A

FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES
PURSUANT TO SECTION 12(b) OR 12(g) OF THE
THE SECURITIES EXCHANGE ACT OF 1934

PROTALIX BIOTHERAPEUTICS, INC.
(Exact name of Registrant as specified in Its Charter)

| | |
|--|--|
| Florida | 65-0643773 |
| ----- (State or other jurisdiction of incorporation or organization) | ----- (I.R.S. Employer Identification No.) |
| 2 Snunit Street Science Park POB 455 Carmiel, Israel ----- | 21000 ----- |
| (Address of principal executive office) | (Zip Code) |

Securities registered pursuant to Section 12(b) of the Act:

| Title of each class | Name of each exchange on which registered |
|--|--|
| Common Stock, par value \$.001 per share | American Stock Exchange |

If this form relates to the registration of a class of securities pursuant to
Section 12 (b) of the Exchange Act and is effective pursuant to General
Instruction A. (c), please check the following box. ☒ [X]

If this form relates to the registration of a class of securities pursuant to
Section 12 (g) of the Exchange Act and is effective pursuant to General
Instruction A. (d), please check the following box. ☐ []

Securities Act registration statement file number to which this form relates:
(if applicable)

Securities to be registered pursuant to Section 12 (g) of the Act:

(Title of Class)

(Title of Class)

INFORMATION REQUIRED IN
REGISTRATION STATEMENT

Item 1. Description of Registrant's Securities to be Registered.

Our authorized capital stock consists of 150,000,000 shares of common stock, par
value \$0.001 per share, and 100,000,000 shares of undesignated preferred stock,
\$.0001 par value per share.

The following summary of provisions of our common stock and preferred stock is
not complete and a full understanding requires a review of our restated articles
of incorporation, as amended, and bylaws that are included as exhibits to this
registration statement and the provisions of applicable law.

Common Stock

As of February 28, 2007, there were 65,657,181 shares of our common stock
outstanding.

The holders of our common stock are entitled to one vote for each share held of record on all matters submitted to a vote of the shareholders and do not have cumulative voting rights. Accordingly, the holders of a majority of the shares of our common stock entitled to vote in any election of directors can elect all of the directors standing for election, if they so choose. Holders of our common stock are entitled to dividends when, as and if declared by the Board of Directors out of funds legally available therefor. In the event of our liquidation, dissolution or winding up, after payment of all of our debts and liabilities, the holders of our common stock are entitled to share ratably in all assets remaining available for distribution to them after payment of liabilities and after provision has been made for each class of stock, if any, having preference over the common stock. The holders of our common stock, as such, have no conversion, preemptive or other subscription rights, and there are no redemption provisions applicable to our common stock. All of our outstanding shares of common stock are fully paid and nonassessable.

Preferred Stock

We have no shares of preferred stock outstanding.

Our restated articles of incorporation, as amended, authorizes the issuance of up to 100,000,000 shares of preferred stock with such voting rights, rights of redemption and other relative rights and preferences as may be determined from time to time by our Board of Directors. Accordingly, our Board of Directors is empowered, without shareholder approval, to issue preferred stock with dividend, liquidation, conversion, voting or other rights which could adversely affect the voting power or other rights of the holders of our common stock. The preferred stock could be utilized, under certain circumstances, as a method of discouraging, delaying or preventing a change in control of our company. We currently have no plan to issue any shares of preferred stock.

Registration Rights

We are obligated to register for resale approximately 65,074,095 shares of our common stock. Such shares were issued in connection with the recent merger of Protalix Ltd. with and into a former wholly-owned subsidiary of our company or were issued upon exercise of warrants issued in connection with such merger. All expenses in effecting these registrations, with the exception of underwriting discounts and selling commissions, will be borne by us.

Lock-up Restrictions

Substantially all of the holders of the 65,074,095 shares of our common stock that are subject to the registration rights described above have entered into lock-up agreements to satisfy Israeli tax laws and contractual obligations. The lock-up agreements prohibit such shareholders from, directly or indirectly, selling or otherwise transferring the shares of our common stock issued to them as a result of the merger during a period commencing upon the closing of the merger and ending on January 1, 2009. However, during such period, each such shareholder may, under the terms of the lock-up agreements and subject to an Israeli tax ruling governing the merger, sell an aggregate of 10% of each such shareholder's original number of locked-up shares. All permitted sales of locked-up shares that may be made during such time period are cumulative.

Florida Anti-Takeover Law Governance and Certain Charter Provisions

We have elected not to be subject to the provisions of Sections 607.0901 and 607.0902 of the Florida Business Corporation Act, the FBCA.

The FBCA prohibits the voting of shares in a publicly held Florida corporation that are acquired in a "control share acquisition" unless the holders of a majority of the corporation's voting shares (exclusive of shares held by officers of the corporation, inside directors or the acquiring party) approve the granting of voting rights as to the shares acquired in the control share acquisition or unless the acquisition is approved by the corporation's Board of Directors. A "control share acquisition" is defined as an acquisition that immediately thereafter entitles the acquiring party to vote in the election of directors within each of the following ranges of voting power: (i) one-fifth or more but less than one-third of all voting power; (ii) one-third or more but less than a majority of all voting power; and (iii) more than a majority of all

voting power.

The FBCA also contains an "affiliated transaction" provision that prohibits a publicly held Florida corporation from engaging in a broad range of business combinations or other extraordinary corporate transactions with an "interested shareholder" unless, among others, (i) the transaction is approved by a majority of disinterested directors before the person becomes an interested shareholder; (ii) the interested shareholder has owned at least 80% of the corporation's outstanding voting shares for at least five years; or (iii) the transaction is approved by the holders of two-thirds of the corporation's voting shares other than those owned by the interested shareholder. An interested shareholder is defined as a person who together with affiliates and associates beneficially owns more than 10% of the corporation's outstanding voting shares.

Indemnification

We are required to indemnify and advance expenses on behalf of our officers and directors to the fullest extent permitted by law in existence either now or in the future.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is American Stock Transfer and Trust Company, New York, New York.

American Stock Exchange Listing

Our common stock has been approved for listing on the American Stock Exchange under the trading symbol "PLX."

Item 2. Exhibits.

The following exhibits are filed herewith or incorporated by reference as indicated below:

| Exhibit Number ----- | Exhibit Description ----- | Method of Filing ----- |
|----------------------------|--|--|
| 3.1 | Amended and Restated Articles of Incorporation of the Company. | Incorporated by reference to the Company's Registration Statement on Form S-4 filed on March 26, 1998, SEC File No. 333-48677. |
| 3.2 | Article of Amendment to Articles of Incorporation dated June 9, 2006. | Filed herewith. |
| 3.3 | Article of Amendment to Articles of Incorporation dated December 13, 2006. | Filed herewith. |
| 3.4 | Article of Amendment to Articles of Incorporation dated December 26, 2006. | Filed herewith. |
| 3.5 | Article of Amendment to Articles of Incorporation dated February 26, 2007. | Filed herewith. |
| 3.6 | Bylaws of the Company, as amended. | Incorporated by reference to the Company's Registration Statement on Form S-4 filed on March 26, 1998, SEC File No. 333-48677. |

SIGNATURES

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized.

PROTALIX BIOTHERAPEUTICS, INC.
(Registrant)

Date: March 9, 2007

By: /s/ David Aviezer

Name: David Aviezer, Ph.D.
Title: President and
Chief Executive Officer

ARTICLES OF AMENDMENT
TO
ARTICLES OF INCORPORATION
OF
ORTHODONTIX, INC.

1. The name of the corporation filing these Articles of Amendment is Orthodontix, Inc. (the "Corporation").

2. Article III of the Articles of Incorporation of the Corporation is amended as follows to increase the Corporation's authorized shares of common stock:

Article III - Capital Stock

The Corporation is authorized to issue the following shares of capital stock: (a) 1,500,000,000 shares of common stock, par value \$.0001 per share (the "Common Stock"); and (b) 100,000,000 shares of preferred stock, par value \$.0001 per share (the "Preferred Stock").

3. The foregoing amendment was duly adopted by unanimous written consent of the directors and a majority of the shareholders of the Corporation on June 9, 2006.

IN WITNESS WHEREOF, the undersigned President and Secretary of Orthodontix, Inc. have executed these Articles of Amendment on behalf of the Corporation on this 9th day of June, 2006.

ORTHODONTIX, INC.

By: /s/Glenn L. Halpryn

Glenn L. Halpryn, Chairman and President

By: /s/Alan Jay Weisberg

Alan Jay Weisberg, Secretary

ARTICLES OF AMENDMENT
TO
ARTICLES OF INCORPORATION
OF
ORTHODONTIX, INC.

1. The name of the corporation filing these Articles of Amendment is Orthodontix, Inc. (the "Corporation").

2. Article III of the Articles of Incorporation of the Corporation is amended as follows to decrease the Corporation's authorized shares of common stock:

Article III - Capital Stock

The Corporation is authorized to issue the following shares of capital stock: (a) 150,000,000 shares of common stock, par value \$.001 per share (the "Common Stock"); and (b) 100,000,000 shares of preferred stock, par value \$.0001 per share (the "Preferred Stock").

3. The foregoing amendment was duly adopted by unanimous written consent of the directors of the Corporation on December 7, 2006.

IN WITNESS WHEREOF, the undersigned President and Secretary of Orthodontix, Inc. have executed these Articles of Amendment on behalf of the Corporation on this 13th day of December, 2006.

ORTHODONTIX, INC.

By: /s/Glenn L. Halpryn

Glenn L. Halpryn, President

By: /s/Alan Jay Weisberg

Alan Jay Weisberg, Secretary

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Article III - Capital Stock

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3. The foregoing amendment was duly adopted by unanimous written consent of the directors of the Corporation on December 14, 2006. The amendment was adopted without Shareholder action and Shareholder action was not required.

IN WITNESS WHEREOF, the undersigned President and Secretary of Orthodontix, Inc. have executed these Articles of Amendment on behalf of the Corporation on this 26th day of December, 2006.

ORTHODONTIX, INC.

By: /s/Glenn L. Halpryn

Glenn L. Halpryn, Chairman and President

By: /s/Alan Jay Weisberg

Alan Jay Weisberg, Secretary

ARTICLES OF AMENDMENT
TO
ARTICLES OF INCORPORATION
OF
ORTHODONTIX, INC.

Document Number P95000091803

1. The name of the corporation filing these Articles of Amendment is
Orthodontix, Inc. (the "Corporation").

2. Article I of the Articles of Incorporation of the Corporation is amended as
follows to change the Corporation's name:

Article I-Name

The name of the corporation is Protalix BioTherapeutics, Inc. (the
"Corporation").

3. The foregoing amendment was duly adopted by unanimous written consent of the
directors and a majority of the shareholders of the Corporation on December 14,
2006.

IN WITNESS WHEREOF, the undersigned President and Secretary of
Orthodontix, Inc. have executed these Articles of Amendment on behalf of the
Corporation on this 26th day of February, 2007.

ORTHODONTIX, INC.

By: /s/ David Aviezer

Name: David Aviezer, Ph.D.
Title: President and
Chief Executive Officer