

ELBIT MEDICAL IMAGING LTD
Form 6-K
August 24, 2006

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 6-K

**REPORT OF FOREIGN PRIVATE ISSUER
PURSUANT TO RULE 13A-16 OR 15D-16 OF
THE SECURITIES EXCHANGE ACT OF 1934**

For the month of August, 2006

Commission File Number 000-28996

ELBIT MEDICAL IMAGING LTD.
(Translation of Registrant's Name into English)

13 MOZES STREET, TEL AVIV 67442, ISRAEL
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.
Form 20-F Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.
Yes No

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):
82-_____.

EXPLANATORY NOTE

Attached as Exhibit 99.1 is an announcement that is being made publicly in Israel on August 24, 2006.

Attached as Exhibit 99.2 is an announcement that is being made publicly in Israel on August 24, 2006.

SIGNATURE

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

ELBIT MEDICAL IMAGING LTD.
(Registrant)

Date: August 24, 2006

By: /s/ Shimon Yitzhaki

Name: Shimon Yitzhaki

Title: President

EXHIBIT INDEX

EXHIBIT NO. DESCRIPTION

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| 99.1 | Announcement made public in Israel on August 24, 2006. |
| 99.2 | Announcement made public in Israel on August 24, 2006. |