ELBIT MEDICAL IMAGING LTD Form 6-K February 21, 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 February, 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)

EXPLANATORY NOTE

Attached are the following exhibits:

99.1 Press release, released publicly on February 21, 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.

Date: February 21, 2006 By: /s/ Mordechay Zisser

Name: Mordechay Zisser

Title: Executive Chairman of the Board of Directors

EXHIBIT INDEX

EXHIBIT NO. DESCRIPTION

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