NOVA MEASURING INSTRUMENTS LTD Form 6-K August 08, 2007

UNITED STATES 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

Date of Report: August 8, 2007 Commission File No.: 000-30688

NOVA MEASURING INSTRUMENTS LTD.

Building 22 Weitzmann Science Park, Rehovot P.O.B 266 Israel

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

Form 20-F x Form 40-F o

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

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 12g3-2(b) under the Securities Exchange Act of 1934:

Yes o No x

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

N/A.

Nova Measuring Instruments Ltd. (the Registrant) announced today that it has entered into an agreement for Market Making in Nova s ordinary shares on the Tel Aviv Stock Exchange in Israel, with Clal Finance Batucha Investment Management Ltd. (Clal Finance), in accordance with the Tel Aviv Stock Exchange Regulations.

The agreement, which is conditional upon receipt by Clal Finance of the authorization from the Tel Aviv Stock Exchange in Israel, appoints Clal Finance to act as a market maker, for an initial period of one year, in connection with the trading of Nova s ordinary shares on the Tel Aviv Stock Exchange in Israel.

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This report on Form 6-K is hereby incorporated by reference into Nova Measuring Instruments Ltd. s registration statements on Form S-8, filed with the Securities and Exchange Commission on the following dates: September 13, 2000 (File No. 333-12546); March 5, 2002 (File No. 333-83734); December 24, 2002 (File No. 333-102193, as amended by Amendment No. 1, filed on January 5, 2006); March 24, 2003 (File No. 333-103981); May 17, 2004 (three files, File Nos. 333-115554, 333-115555, and 333-115556, as amended by Amendment No. 1, filed on January 5, 2006); March 7, 2005 (File No. 333-123158); December 29, 2005 (File No. 333-130745); and September 21, 2006 (File No. 333-137491) and into Nova Measuring Instruments Ltd. s registration statement on Form F-3, filed with the Securities and Exchange Commission on May 11, 2007 (File No. 333-142834).

Signatures

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.

NOVA MEASURING INSTRUMENTS LTD. (the Registrant)

By: /s/ Dror David

Dror David Chief Financial Officer

Date: August 8, 2007

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