

NOVA MEASURING INSTRUMENTS LTD

Form 6-K

July 23, 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: July 23, 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 Form 40-F

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 No

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

N/A.

Attached hereto and incorporated by way of reference herein is a press release issued by the Registrant and entitled Nova Measuring Instruments Second Quarter 2007 Results Release Conference Call Scheduled for August 1, 2007 at 10:00am EDT .

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: July 23, 2007

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**NOVA MEASURING INSTRUMENTS
SECOND QUARTER 2007 RESULTS RELEASE**

Conference Call Scheduled for August 1st, 2007 at 10:00 am EDT

REHOVOT, Israel July 23, 2007 Nova Measuring Instruments Ltd. (NASDAQ: NVMI), provider of leading edge stand-alone metrology and the market leader of integrated metrology solutions to the semiconductor process control market, announced that it will release its second quarter 2007 results on August 1st, 2007 before the US markets open. It will also host a conference call to discuss those results on August 1st, 2007, at 10:00 am EDT.

On the call, Mr. Gabi Seligsohn, President & CEO, and Mr. Dror David, CFO, will review and discuss the second quarter results and other business developments, and will be available to answer questions.

To participate, please call one of the following teleconferencing numbers. Please begin by placing your calls 5 minutes before the conference call commences. If you are unable to connect using the toll-free numbers, please try the international dial-in number.

U.S. Dial-in Numbers: 1 866 860 9642
U.K. Dial-in Number: 0 800 032 3367
ISRAEL Dial-in Number: 03 918 0687
INTERNATIONAL Dial-in Number: +972 3 918 0687

At:

10:00 a.m. Eastern Time

7:00 a.m. Pacific Time

5:00 p.m. Israeli Time

For those unable to participate in the conference call, there will be a replay available the day following the call on Nova's website at www.nova.co.il.

About Nova

Nova Measuring Instruments Ltd. develops, produces and markets advanced integrated and stand alone metrology solutions for the semiconductor manufacturing industry. Nova is traded on the NASDAQ & TASE under the symbol NVMI. The Company's website is www.nova.co.il.
