

NOVA MEASURING INSTRUMENTS LTD  
Form 6-K  
April 25, 2007

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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: April 25, 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 the Registrant's press release entitled "Nova Measuring Instruments First Quarter 2007 Results Release - Conference Call Scheduled for May 7, 2007 at 10am EDT".

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**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.

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NOVA MEASURING INSTRUMENTS LTD.  
(the "Registrant")

By: /s/ Dror David

Dror David  
Chief Financial Officer

Date: April 25, 2007

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**Company Contact:**

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

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*Conference Call Scheduled for May 7<sup>th</sup>, 2007 at 10am EDT*

**REHOVOTH, Israel April 25, 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 first quarter 2007 results on May 7<sup>th</sup>, 2007 before the US markets open. It will also host a conference call to discuss those results on May 7<sup>th</sup>, 2007, at 10:00 am EDT.

On the call, Mr. Gabi Seligsohn, President & CEO, and Mr. Dror David, CFO, will review and discuss the first 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: 1-888-281-1167**  
**U.K. Dial-in Number: 0-800-917-9141**  
**ISRAEL Dial-in Number: 03-918-0609**  
**INTERNATIONAL Dial-in Number: +972-3-918-0609**  
**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](http://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](http://www.nova.co.il).

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