

NOVA MEASURING INSTRUMENTS LTD  
Form 6-K  
April 21, 2010

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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER  
PURSUANT TO RULE 13a-16 OR 15d-16 OF  
THE SECURITIES EXCHANGE ACT OF 1934

April 21, 2010

Commission File No.: 000-30688

NOVA MEASURING INSTRUMENTS LTD.  
(Translation of registrant's name into English)

Building 22 Weizmann Science Park, Rehovot  
P.O.B 266  
Israel  
(Address of principal executive offices)

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 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 by furnishing the information contained in this Form, the registrant is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes  No

Attached hereto and incorporated by way of reference herein is a press release issued by the Registrant and entitled "Nova Measuring Instruments Schedules First Quarter 2010 Results Conference Call for May 4, 2010 at 9am Eastern Time".

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.  
(Registrant)

Date: April 21, 2010

By: /s/ Dror David

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Dror David  
Chief Financial Officer

Company

Contact:

Dror David, Chief Financial  
Officer  
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Ltd.

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Nova Measuring Instruments Schedules First Quarter 2010 Results  
Conference Call for May 4, 2010 at 9am Eastern Time

REHOVOT, Israel, April 21, 2010 – 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 results for the first quarter 2010 before the market opens on Tuesday, May 4, 2010. In conjunction with this release, Nova will host a conference call later that same day at 9 a.m. Eastern Time.

Mr. Gabi Seligsohn, President and Chief Executive Officer, and Mr. Dror David, Chief Financial Officer will review and discuss the results as well as 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: 1 866 850 2201

ISRAEL Dial-in Number: 03 721 9510

INTERNATIONAL Dial-in Number: +972 3 721 9510

At:

9 a.m. Eastern Time

6 a.m. Pacific Time

4 p.m. Israeli Time

The conference call will also be webcast live from a link on Nova's website at [www.nova.co.il](http://www.nova.co.il).

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).

