NOVA MEASURING INSTRUMENTS LTD Form 6-K February 08, 2010

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

February 8, 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 x Form 40 |)-F o |
|-----------------------------------|--|
| Indicate by check mark 101(b)(1): | if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule |
| Indicate by check mark 101(b)(7): | if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule |
| • | whether by furnishing the information contained in this Form, the registrant is also thereby ion to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934. |

Yes o No x

Attached hereto and incorporated by way of reference herein is a press release issued by the Registrant and entitled "Nova Measuring Instruments Schedules 2009 Fourth Quarter and Full Year Results Conference Call For February 17, 2010 at 10 am ET"

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

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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); September 21, 2006 (File No. 333-137491); and November 5, 2007 (File No. 333-147140) 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).

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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.

NOVA MEASURING INSTRUMENTS LTD.

(Registrant)

Date 08/02/10 By: /s/ Dror David

sj. 76, Biel Bavia

Dror David

Chief Financial Officer

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Nova Measuring Instruments Schedules 2009 Fourth Quarter and Full Year Results Conference Call For February 17, 2010 at 10 am ET

REHOVOT, Israel, February 8, 2010– Nova Measuring Instruments Ltd. (NASDAQ: NVMI, TASE: 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 fourth quarter and full year of 2009 before the market opens on Wednesday, February 17, 2010. In conjunction with this release, Nova will host a conference call later that same day at 10 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: 1 800 994 4498 ISRAEL Dial-in Number: 03 918 0650 INTERNATIONAL Dial-in Number: +972 3 918 0650

At:

10 a.m. Eastern Time 7 a.m. Pacific Time 5 p.m. Israeli Time

The conference call will also be webcast live from a link on Nova's website at 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.

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.