

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: February 26, 2007
Commission File No.: 000-30688

NOVA MEASURING INSTRUMENTS LTD.

**Building 22 Weitzmann Science Park, Rehovoth
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 on, and dated, February 23, 2007, and entitled "Nova CEO to present at Upcoming SRA Technology Conference".

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: February 26, 2007



partnering for process control

Company Contact:

Dror David, Chief Financial Officer
Nova Measuring Instruments Ltd.
Tel: 972-8-938-7505
E-mail: info@nova.co.il
<http://www.nova.co.il>

Investor Relations Contacts:

Ehud Helft / Kenny Green
GK Investor Relations
Tel: +1-866-704-6710
E-mail: Ehud@gkir.com
Kenny@gkir.com

NOVA CEO TO PRESENT AT UPCOMING SRA TECHNOLOGY CONFERENCE

- Audio Webcast Available on Company Website after Event

REHOVOTH, Israel – February 23, 2007 – Nova Measuring Instruments Ltd. (NASDAQ: NVMI), provider of leading edge stand alone metrology solutions and market leader of integrated metrology solutions to the semiconductor process control market, today announced that the Company's President & CEO, Mr. Gabi Seligsohn, is scheduled to present at the SRA's upcoming investor conference. Following are the conference details:

SRA's 3rd Annual Winter Technology & Healthcare Conference

Omni Hotel, 500 California St.
San Francisco, CA. 415-677-9494

Date: Monday, February 26, 2007

Presentation time: 11a.m PST (2 p.m EST)

An audio web-cast of the conference presentation will be available on Nova's Investor Relations and News & Events web pages (at www.nova.co.il), and at <http://www.wsw.com/webcast/sra4/nvmi/>

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

