

NOVA MEASURING INSTRUMENTS LTD  
Form 6-K  
February 27, 2012

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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

February 27, 2012

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 is a press release issued by the Registrant and entitled: "Nova Measuring Instruments to Present at the Roth Capital Growth Stock Conference on March 12, 2012".

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: February 27, 2012

By: /s/ Dror David

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Dror David  
Chief Financial Officer

Company Contact:  
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Nova Measuring Instruments to Present at the Roth Capital Growth  
Stock Conference on March 12, 2012

Company presentation will be at 4:00pm Pacific Time and will be webcast live

REHOVOT, Israel, February 27, 2012 - 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, today announced that its Chief Financial Officer, Mr. Dror David, will attend the Roth Capital Growth Stock Conference 2012.

The conference will be taking place at the Ritz-Carlton Laguna Niguel, California. Nova's CFO is scheduled to present at 4:00pm Pacific Time on Monday, March 12, 2012. The presentation will be simultaneously broadcast from a link in the investor relations section of Nova's website, or from the following link: <http://www.nvmi.com/webcast/roth26/nvmi/>

At the conference there will be an opportunity for investors to meet one-on-one with Mr. David. Interested investors should contact the conference organizers or the Investor Relations team at Nova.

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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