

NOVA MEASURING INSTRUMENTS LTD  
Form 6-K  
September 16, 2009

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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**

September 16, 2009

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 to Present at the 2009 RedChip Small-Cap Investor Conference".

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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: September 16, 2009

By: */s/ Dror David*

Dror David  
Chief Financial Officer

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**Company Contact:**

Dror David, Chief Financial Officer  
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**Nova to Present at the 2009 RedChip Small-Cap Investor Conference**

**REHOVOT, Israel, September 16, 2009** 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 today that executive officers from the company will be presenting at the New York RedChip Small-Cap Investment Conference on September 30<sup>th</sup> & October 1<sup>st</sup> 2009.

Presenters for Nova will be Gabi Seligsohn, President and CEO and Dror David, Chief Financial Officer. The event will take place at the NASDAQ MarketSite, 4 Times Square, New York. A webcast of the presentation can be accessed starting from the day of the presentation on the company's web site at [www.nova.co.il](http://www.nova.co.il).

Investors interested in meeting with management at the conference or in New York should contact Nova's Investor Relations team.

**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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