

NOVA MEASURING INSTRUMENTS LTD  
Form 6-K  
July 01, 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**

July 1, 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 on, and dated, June 30, 2009, and entitled "Nova Revolutionizes Materials Characterization for Optical CD".

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 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.

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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: July 1, 2009

By: /s/ Dror David

Dror David  
Chief Financial Officer

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#### Company Contact:

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### Nova Revolutionizes Materials Characterization for Optical CD

*New package significantly reduces time to solution from days to several hours  
and improves Optical CD measurement quality*

**REHOVOT, Israel, June 30, 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, today announced the launching of MatMaker , a Product-Driven Materials Characterization package which revolutionizes one of the most critical elements of Optical CD measurement. Last week the Company announced all time record orders for its stand-alone Optical CD product and the addition of the MatMaker Package is intended to further solidify the Company s position in the market.

Spectral Optical CD technologies need material optical properties (spectral n&k) to interpret the optical spectrum into a profile measurement. Until today the industry standard was to measure material properties on blanket wafers, layer by layer, a process that takes from days to more than a month, well in advance of actual Scatterometry application development. In addition to the obvious drawbacks of significant plan-ahead and time investment, this method could not account for material changes that occur during wafer processing, changes that affect material properties and the accuracy of the final measurement.

Nova s novel technology eliminates this step-by-step method. It capitalizes on proprietary breakthrough algorithms for enhancing the sensitivity of Scatterometry measurements, directly utilizing Scatterometry targets on the product wafer to determine the optical properties of the various constituent materials together with the geometrical profile parameters. Multiple film depositions on blanket wafers are no longer needed as a prerequisite for Scatterometry applications development, and any and all process-induced changes to materials optical properties can now be uniquely and accurately captured inside the Scatterometry model.

At advanced technology nodes we see a rapid increase in Optical CD deployment and CD-SEM replacement said Gabi Seligsohn, President and CEO of Nova. This new technology, based on software algorithms and tools refined by our applications developers for the past 10 years, changes the way spectral Optical CD is deployed in fabs, significantly reducing application development time and cost while at the same time increasing the measurement accuracy. I see our new technology as a driver to further proliferation of Nova s Optical CD solutions not only to existing users of Optical CD but also to areas deploying other types of metrology .

The MatMaker Package is available as an option to the latest version of NovaMARS Applications Development Software.

**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).

*This press release contains forward-looking statements within the meaning of safe harbor provisions of the Private Securities Litigation Reform Act of 1995 relating to future events or our future performance, such as statements regarding trends, demand for our products, expected deliveries, transaction, expected revenues, operating results, earnings and profitability. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied in those forward looking statements. These risks and other factors include but are not limited to: unanticipated consequences of the global economic crisis, our dependency on a single integrated process control product line; the highly cyclical nature of the markets we target; our inability to reduce spending during a slowdown in the semiconductor industry; our ability to respond effectively on a timely basis to rapid technological changes; risks associated with our dependence on a single manufacturing facility; our ability to expand our manufacturing capacity or marketing efforts to support our future growth; our dependency on a small number of large customers and small number of suppliers; risks related to our intellectual property; changes in customer demands for our products; new product offerings from our competitors; changes in or an inability to execute our business strategy; unanticipated manufacturing or supply problems; changes in tax requirements; changes in customer demand for our products; risks related to currency fluctuations; and risks related to our operations in Israel. We cannot guarantee future results, levels of activity, performance or achievements. The matters discussed in this press release also involve risks and uncertainties summarized under the heading Risk Factors in Nova's Annual Report on Form 20-F for the year ended December 31, 2008 filed with the Securities and Exchange Commission on March 30, 2009. These factors are updated from time to time through the filing of reports and registration statements with the Securities and Exchange Commission. Nova Measuring Instruments Ltd. does not assume any obligation to update the forward-looking information contained in this press release.*

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