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**NOVA MEASURING INSTRUMENTS  
2005 FOURTH QUARTER AND ANNUAL RELEASE AND CONFERENCE CALL**

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*Conference Call Scheduled for April 11, 2006 at 12pm Eastern Daylight Savings Time*

**REHOVOTH, Israel – April 10, 2006** – Nova Measuring Instruments Ltd. (NASDAQ: NVMI), a worldwide leader in the development, design and production of integrated process control systems in the semiconductor manufacturing industry, announced that it will host a conference call on April 11<sup>th</sup>, 2006, at 12:00pm EDST to discuss its 2005 fourth quarter and full year results.

On the call, Dr. Giora Dishon, President & CEO, and Mr. Dror David, CFO and Vice President Finance, will review and discuss the fourth quarter and full year 2005 results 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: 1-866-229-7198**  
**U.K. Dial-in Number: 0-800-917-5108**  
**ISRAEL Dial-in Number: 03-918-0609**  
**INTERNATIONAL Dial-in Number: +972-3-918-0609**  
**At:**  
**12:00 p.m. Eastern Time**  
**9:00 a.m. Pacific Time**  
**7:00 p.m. Israeli Time**

For those unable to participate in the conference call, there will be a replay available from April 12<sup>th</sup>, 2006 through July 11<sup>th</sup>, 2006, on Nova's website at [www.nova.co.il](http://www.nova.co.il).

**About Nova**

Nova Measuring Instruments Ltd. develops, designs and produces integrated process control systems for the semiconductor manufacturing industry. Nova provides a broad range of integrated process control solutions that link between different semiconductor processes and process equipment. The Company's web site is [www.nova.co.il](http://www.nova.co.il).

*This press release contains forward-looking statements relating to future events or our future performance and 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: 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 and changes in customer demand for our products. 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, 2004 filed with the Securities and Exchange Commission on June 28, 2005. 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.*