

NOVA MEASURING INSTRUMENTS LTD  
Form 6-K  
April 25, 2006

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**FORM 6-K**  
**SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549  
Report of Foreign Private Issuer  
Pursuant to Rule 13a-16 or 15d-16  
of the Securities Exchange Act of 1934

Date of Report: April 25 2006  
Commission File No.: 000-30688

**NOVA MEASURING INSTRUMENTS LTD.**

Building 22 Weitzmann Science Park, Rehovoth  
P.O.B 266

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 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 herein by reference are Exhibits 99.1 and 99.2, the Registrant's press release and a summary of certain material  
terms of the Asset Purchase Agreement among the Registrant, HyperNex, Inc. and its shareholders.

This report on Form 6-K is hereby incorporated by reference into the registration statements on Form S-8 filed by Nova Measuring Instruments  
Ltd., 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); March 24, 2003 (File No. 333-103981); May 17, 2004 (three files, File Nos.  
333-115554, 333-115555, and 333-115556); March 7, 2005 (File No. 333-123158); and December 29, 2005 (File No. 333-130745).

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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.

Date: April 25, 2006

Nova Measuring Instruments Ltd.  
(the "Registrant")

BY: /S/ Dror David

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Dror David  
Chief Financial Officer

Exhibit Index

Exhibit 99.1: Press Release

Exhibit 99.2: Asset Purchase Agreement

