

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): Not Applicable
13. Percent of Class Represented by Amount in Row (11): 14.0*
14. Type of Reporting Person (See Instructions): IA, IN

* This is a joint filing by Austin W. Marxe (?Marxe?) and David M. Greenhouse (?Greenhouse?). Marxe and Greenhouse share sole voting and investment power over 477,178 shares of Common Stock owned by Special Situations Cayman Fund, L.P., 1,189,299 shares of Common Stock owned by Special Situations Fund III, L.P., 70,831 shares of Common Stock owned by Special Situations Technology Fund, L.P. and 356,969 shares owned by Special Situations Technology Fund II, L.P. See Items 2 and 4 of this Schedule for additional information.

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Item 1. Security and Issuer:

- (a) Nova Measuring Instruments Ltd.
 (b) P.O. Box 266, Rohovot 76100 Israel L3

Item 2. (a) Name of Person Filing:

The persons filing this report are Austin W. Marxe (?Marxe?) and David M. Greenhouse (?Greenhouse?), who are the controlling principals of AWM Investment Company, Inc. (?AWM?), the general partner of and investment adviser to Special Situations Cayman Fund, L.P. (?Cayman?). AWM also serves as the general partner of MGP Advisers Limited Partnership (?MGP?), the general partner of and investment adviser to Special Situations Fund III, L.P. (?SSF3?). Marxe and Greenhouse are also members of SST Advisers, L.L.C. (?SSTA?), the general partner of and investment adviser to Special Situations Technology Fund, L.P. (?Technology?) and Special Situations Technology Fund II, L.P. (?Tech II?). (SSF3, Cayman, Technology and Tech II will hereafter be referred to as, the ?Funds?). The principal business of each Fund is to invest in equity and equity-related securities and other securities of any kind or nature.

(b) Address of Principal Business Office or, if none, Residence:

The principal business address for Marxe and Greenhouse is 153 East 53rd Street, 55th floor, New York, NY 10022.

(c) Citizenship:

Austin W. Marxe and David M. Greenhouse are United States citizens.

(d) Title of Class of Securities: Common Stock

(e) CUSIP Number: 669949901.

Item 3. If this statement is filed pursuant to §240.13d-1(b) or 240.13d-2(b), check whether

the person filing is a: Not Applicable

- (a) Broker or Dealer registered under section 15 of the Act;
 (b) Bank as defined in section 3(a) (6) of the Act;
 (c) Insurance Company as defined in section 3(a) (19) of the Act;
 (d) Investment Company registered under section 8 of the Investment Company Act of 1940;
 (e) An Investment Adviser in accordance with §240.13d-1(b)(I)(ii)(E);
 (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(I)(ii)(F);

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(g) A parent holding company or control person in accordance with §240.13d-

1(b)(1)(ii)(G);

(h) A savings association as defined in Section 3(b) of the Federal Deposit Insurance

Act;

(i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940;

(j) Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Item 4. Ownership:

(a) Amount Beneficially Owned: Messrs. Marxe and Greenhouse beneficially own a total of 2,094,277 shares of Common Stock. This amount includes 477,178 shares of Common Stock owned by Cayman, 70,831 shares of Common Stock owned by Technology, 356,969 shares of Common Stock owned by Tech II and 1,189,299 shares of Common Stock owned by SSF3.

(b) Percent of Class: Messrs. Marxe and Greenhouse beneficially own 14.0% of the shares outstanding. Cayman owns 3.2% of the outstanding shares, Technology owns 0.5% of the outstanding shares, Tech II owns 2.4% of the outstanding shares and SSF3 owns 8.0% of the outstanding shares.

(c) Number of Shares as to which the person has:

(i) Sole power to vote or to direct the vote: 0

(ii) Shared power to vote or to direct the vote: 2,094,277

(iii) Sole power to dispose or to direct the disposition of: 0

(iv) Shared power to dispose or to direct the disposition of:
2,094,277

Item 5. Ownership of Five Percent or Less of a Class: If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following ___.

Item 6. Ownership of More than Five Percent on Behalf of Another Person: Not Applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security being Reported on By the Parent Holding Company: Not Applicable.

Item 8. Identification and Classification of Members of the Group: Not applicable

Item 9. Notices of Dissolution of Group: Not applicable.

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Item 10. Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 12, 2004

/s/ Austin W. Marxe
AUSTIN W. MARXE

/s/ David M Greenhouse
DAVID M. GREENHOUSE

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001).

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JOINT FILING AGREEMENT

Austin W. Marx and David M. Greenhouse hereby agree that the Schedule 13G to which this agreement is attached is filed on behalf of each of them.

/s/_Austin W. Marx
Austin W. Marx

/s/_David M. Greenhouse
David M. Greenhouse

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