February 14, 2006

#### UNITED STATES

### SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

### **SCHEDULE 13G**

**Under the Securities Exchange Act of 1934** 

# **Nova Measuring Instruments Ltd.**

(Name of Issuer)
Ordinary Shares, Par Value NIS 0.01

(Title of Class of Securities)

M7516K 10 3

(CUSIP NUMBER)

December 31, 2005

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- O Rule 13d-1(b)
- o Rule 13d-1(c)
- x Rule 13d-1(d)

CUSIP No. M7516K 10 3 SCHEDULE 13G

	T	1	,				
1.	NAME OF REPORTING PERSONS: DR. GIORA DISHON I.R.S. IDENTIFICATION NOS. NOT APPLICABLE						
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) O (b) X						
3.	SEC Use Only						
4.	CITIZENSHIP or PLACE OF ORGANIZATION  Israel						
NUN	MBER OF	5.	SOLE VOTING POWER 1,009,442(1)				
BENE OW	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		SHARED VOTING POWER				
REF			SOLE DISPOSITIVE POWER 1,009,442(1)				
			SHARED DISPOSITIVE POWER				
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,009,442(1)						
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  o						
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 6.4(2)						
12.	TYPE OF REPORTING PERSON IN						

	CUSIP No. M7516K 10 3
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Item 1(a). Name of Issuer:

Nova Measuring Instruments Ltd.

Item 1(b). Address of Issuer's Principal Executive Offices:

Weitzman Scientific Park P.O. Box 266 Rehovot 76100 Israel

Item 2(a). Name of Person Filing:

Dr. Giora Dishon

Item 2(b). Address of Principal Business Office or, if None, Residence:

c/o Nova Measuring Instruments Ltd. Weitzman Scientific Park P.O. Box 266 Rehovot 76100 Israel

Item 2(c). Citizenship:

Israel.

Item 2(d). Title of Class of Securities:

Ordinary Shares, par value NIS 0.01 per share

Item 2(e). CUSIP Number:

M7516K 103

- Item 3. If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a: Not Applicable
  - (a)  $_{\mathrm{O}}$  Broker or dealer registered under Section 15 of the Exchange Act;
  - (b) O Bank as defined in Section 3(a)(6) of the Exchange Act;
  - (c) O Insurance Company as defined in Section 3(a)(19) of the Exchange Act;

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	CUSIP I	No. M7:	516K 10 3	SCHEDULE 13G			
	(d)	o	Investment Company	y registered under Section 8 of the Investment C	Company Exchange Act;		
	<ul> <li>(e) O Investment Adviser in accordance with Rule 13d-1(b)(1)(ii)(E);</li> <li>(f) O Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F);</li> <li>(g) O Parent Holding Company or Control Person in accordance with Rule 13d-1(b)(1)(ii)(G);</li> </ul>						
	(h)	o	Saving Association as defined in Section 3(b) of The Federal Deposit Insurance Act;				
	(i)	o	Church Plan that is excluded from the definition of an Investment Company under Section 3(c)(14) of the Investment Company Act;				
	(j)	o	Group, in accordance	e with Rule 13d-1(b)(1)(ii)(J).			
Item 4.	Owne	Ownership.					
	(a) Amount beneficially owned:1,009,442(1)						
	<ul><li>(b) Percent of Class: 6.4%(2)</li><li>(c) Number of shares as to which such person has:</li></ul>						
			(i) Sole power to	o vote or direct the vote: 1,009,442(1)			
			(ii) Shared power	r to vote or to direct the vote: 0			
			(iii) Sole power to	o dispose or direct the disposition of: 1,009,442(	1)		
			(iv) Shared power	r to dispose or to direct the disposition of: 0			
Item 5.	Owne	Ownership of Five Percent or Less of a Class.					
	Not A	ot Applicable.					
Item 6.	Owne	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.						
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Item 8.	Identification and Classification of Members of the Group.								
	Not Applicable.								
Item 9.	Notice of Dissolution of Group.								
	Not Applicable.								
Item 10.	Certification.								
	Not Applicable.								

#### **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.

February, 2006

(Date)

Dr. Giora Dishon

(Signature)

Dr. Giora Dishon

(Name/Title)

- (1) Includes 107,500 Ordinary Shares held by a trustee according to the tax laws of Israel and options to which are currently exercisable to purchase additional 255,000 Ordinary Shares.
- (2) The issuer has advised the Reporting Person that as of December 31, 2005 there were 15,457,471 outstanding Ordinary Shares of the issuer. The Reporting Person s Ownership percentage is based on that amount.