### NOVA MEASURING INSTRUMENTS LTD Form SC 13G/A February 14, 2018

(a) [\_]

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 4)\*

	NOVA MEASURING INSTRUMENTS LTD.
	NOVA MEASURING INSTRUMENTS LID.  Name of Issuer)
Or:	dinary Shares, NIS 0.01 nominal (par) value
(Title of	Class of Securities)
	M7516K103
(CI	USIP Number) December 29, 2017
(Date of Event Whi	ch Requires Filing of this Statement)
Check the appropriate box to design Schedule is filed:	mate the rule pursuant to which this
[X] Rule 13d-1(b)	
[_] Rule 13d-1(c)	
[_] Rule 13d-1(d)	
initial filing on this form with	shall be filled out for a reporting person's respect to the subject class of securities, containing information which would alter or cover page.
deemed to be "filed" for the purpo Act of 1934 ("Act") or otherwise so of the Act but shall be subject to see the Notes).	emainder of this cover page shall not be use of Section 18 of the Securities Exchange subject to the liabilities of that section all other provisions of the Act (however,
CUSIP NO. M7516K103	13G Page 2 of 8 Page
(1) NAMES OF REPORTING PERSONS.  I.R.S. IDENTIFICATION NOS.	OF ABOVE PERSONS (entities only).
Renaissance Technologies LLC	26-0385758
(2) CHECK THE APPROPRIATE BOX IF	A MEMBER OF A GROUP (SEE INSTRUCTIONS):

	(b) [_]					
(3)	SEC USE ONLY					
(4)	CITIZENSHIP OR PLACE OF ORC	GANIZATION				
	Delaware					
			(5)	SOLE VOTING POWER		
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	1,904,700				
			(6)	SHARED VOTING POWER		
			0			
			(7)	SOLE DISPOSITIVE POWER		
				1,904,700		
			(8)	SHARED DISPOSITIVE POWER		
				0		
(9)	AGGREGATE AMOUNT BENEFICIA	ALLY OWNED BY EAC	H REI	PORTING PERSON		
()		.,904,700	11 1(1)	ONTING I BROOM		
(10)	CHECK BOX IF THE AGGREGATE		9) EX	COLUDES CERTAIN SHARES		
(10)	(SEE INSTRUCTIONS)	intolli ili lon (	J, L	[_]		
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	6	5.84 %				
(12)	TYPE OF REPORTING PERSON IA	SEE INSTRUCTIONS	)			
		Page 2 of 8 pag				
		Page 3 of 8 pag	es			
	IP NO. M7516K103	13G		Page 3 of 8 Page		
(1)	NAMES OF REPORTING PERSONS	5.		ENTITIES ONLY).		
	RENAISSANCE TECHNOLOGIES HOLDINGS CORPORATION 13-3127734					
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [_]  (b) [_]					
(3)	SEC USE ONLY					

(4) CITIZENSHIP OF	R PLACE OF ORGANIZ	ZATION				
Delaware						
			(5)	SOLE VOTING POWER		
NUMBER OF SHABENEFICIALLY	OWNED	-		1,904,700		
BY EACH REPOF PERSON WITH:	RTING		(6)	SHARED VOTING POWER		
		_	0			
			(7)	SOLE DISPOSITIVE POWER		
				1,904,700		
		-	(8)	SHARED DISPOSITIVE POWER		
				0		
		-				
(9) AGGREGATE AMC	OUNT BENEFICIALLY	OWNED BY EACH	REP	ORTING PERSON		
	1,904	4,700				
(10) CHECK BOX IF (SEE INSTRUC		OUNT IN ROW (9	) EX	CLUDES CERTAIN SHARES		
(11) PERCENT OF C	LASS REPRESENTED	BY AMOUNT IN	ROW	(9)		
	6.84	%				
(12) TYPE OF REPOR	RTING PERSON (SEE HC	INSTRUCTIONS)				
===========	Paç	ge 3 of 8 page:		=======================================		
CUSIP NO. M7516k	 103	13G		Page 4 of 8 Page		
Item 1.						
(a) Name of Is	suer					
NOVA MEASU	RING INSTRUMENTS	LTD.				
(b) Address of	Issuer's Princip	pal Executive (	Offi	ces.		
Weizmann	Science Park, Ein	nstein St., Bu	ildi	ng 22, Ness-Ziona, Israel		
Item 2.						
(a) Name of Pe	erson Filing:					
				ance Technologies LLC gs Corporation ("RTHC").		

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

The principal business address of the reporting persons is:

800 Third Avenue New York, New York 10022

(c) Citizenship.

RTC is a Delaware limited liability company, and RTHC is a Delaware corporation.

(d) Title of Class of Securities.

Ordinary Shares, NIS 0.01 nominal (par) value

(e) CUSIP Number.

M7516K103

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- Item 3. If this statement is filed pursuant to Rule 13d-1(b) or 13-d-2(b)or (c), check whether the person filing is a:
- (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.
- (e) [x] Investment Adviser in accordance with Sec.240.13d-1(b)(1)(ii)(E).
- (f) [\_] Employee Benefit Plan or Endowment Fund in accordance with Sec. 240.13d-1(b)(1)(ii)(F).
- (g) [\_] Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G).
- (h) [\_] A savings associations 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 Sec.240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

(a) Amount beneficially owned.

RTC:

1,904,700 shares 1,904,700 shares, comprising the shares beneficially owned RTHC: by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 6.84 % RTHC: 6.84 %

- (c) Number of shares as to which the person has:
  - (i) sole power to vote or to direct the vote:

RTC: 1,904,700 RTHC: 1,904,700

(ii) Shared power to vote or to direct the vote: 0

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

RTC: 1,904,700 RTHC: 1,904,700

(iv) Shared power to dispose or to direct the disposition of:

RTC: 0 RTHC: 0

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\_\_\_\_\_\_

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.

Certain funds and accounts managed by RTC have the right to receive dividends and proceeds from the sale of the securities which are the subject of this report.

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. Notice of Dissolution of a 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 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.

Date: February 13, 2018

Renaissance Technologies LLC

By: /s/ Mark Silber
Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber
Vice President

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

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#### EXHIBIT 99.1

AGREEMENT REGARDING JOINT FILING

UNDER RULE 13D-1(K) OF THE EXCHANGE ACT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, each of the undersigned agrees to the filing on behalf of each of a Statement on Schedule 13G, and all amendments thereto, with respect to the Ordinary Shares, NIS 0.01 nominal (par) value of NOVA MEASURING INSTRUMENTS LTD.

Date: February 13, 2018

Renaissance Technologies LLC

By: /s/ Mark Silber
Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber Vice President

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