FONAR CORP Form SC 13G/A February 14, 2018

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

FONAR CORP	ORATION
(Name of Issuer)	
Common Stock, par	value \$.0001
(Title of Class of Securi	 ties)
344437405	
(CUSIP Number) December 2	9, 2017
(Date of Event Which Requires Fili	ng of this Statement)
Check the appropriate box to designate the rule pu Schedule is filed:	rsuant to which this
[X] Rule 13d-1(b)	
[_] Rule 13d-1(c)	
[_] Rule 13d-1(d)	
*The remainder of this cover page shall be filled initial filing on this form with respect to the stand for any subsequent amendment containing inform the disclosures provided in a prior cover page.	ubject class of securities,
The information required in the remainder of this deemed to be "filed" for the purpose of Section 18 Act of 1934 ("Act") or otherwise subject to the li of the Act but shall be subject to all other provi see the Notes).	of the Securities Exchange abilities of that section
	=======================================
CUSIP NO. 344437405 13G	Page 2 of 8 Pages
(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 GR	OUP (SEE INSTRUCTIONS):

	(b) [_]			
(3)	SEC USE ONLY			
(4)	CITIZENSHIP OR PLACE OF C	DRGANIZATION		
	Delaware 			
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		(5)	SOLE VOTING POWER	
	BENEFICIALLY OWNED			426,516
		(6)	SHARED VOTING POWER	
			0	
			(7)	SOLE DISPOSITIVE POWER
			434,400	
			(8)	SHARED DISPOSITIVE POWER
				29,216
(9)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
		463,616		
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	(SEE INSTRUCTIONS)			[_]
(11)	PERCENT OF CLASS REPRES	SENTED BY AMOUNT IN	ROW	(9)
		7.37 %		
(12)	TYPE OF REPORTING PERSON	N (SEE INSTRUCTIONS)	
		Page 2 of 8 pag	es	
====				
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	NAMES OF REPORTING PERSO	ONS.		
	RENAISSANCE TECHNOLOGIES	6 HOLDINGS CORPORAT	ION	13-3127734
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) [_] (b) [_]			
(3)	SEC USE ONLY			

(4) CITIZENSHIP OR PLACE OF ORGANIZ	ZATION
Delaware	
	(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED	426,516
BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER
	0
	(7) SOLE DISPOSITIVE POWER
	434,400
	(8) SHARED DISPOSITIVE POWER
	29,216
(9) AGGREGATE AMOUNT BENEFICIALLY	
463,6	516
(10) CHECK BOX IF THE AGGREGATE AMC (SEE INSTRUCTIONS)	OUNT IN ROW (9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESENTED	BY AMOUNT IN ROW (9)
7.37	8
(12) TYPE OF REPORTING PERSON (SEE HC	INSTRUCTIONS)
Pag	ge 3 of 8 pages
CUSIP NO. 344437405	13G Page 4 of 8 Page:
Item 1.	
(a) Name of Issuer	
FONAR CORPORATION	
(b) Address of Issuer's Princip	pal Executive Offices.
110 Marcus Drive Melville	e, New York 11747
Item 2.	
(a) Name of Person Filing:	
	g filed by Renaissance Technologies LLC echnologies Holdings 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.

Common Stock, par value \$.0001

(e) CUSIP Number.

344437405

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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: 463,616 shares

RTHC: 463,616 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 7.37 % RTHC: 7.37 %

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

RTC: 426,516 RTHC: 426,516

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

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

RTC: 434,400 RTHC: 434,400

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

RTC: 29,216 RTHC: 29,216

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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 shares of Common Stock, par value \$.0001 of FONAR CORPORATION.

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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