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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

	NATHAN'S FAMOUS, INC.						
	(Name of	Issuer)					
common stock, par value of \$.01							
(Title of Class of Securities)							
	63	32347100					
	(CUSIP Num	nber) ovember 22, 2017					
	(Date of Event Which Requi	res Filing of this Statement)					
	ck the appropriate box to designate the edule is filed:	rule pursuant to which this					
	[X] Rule 13d-1(b)						
	[_] Rule 13d-1(c)						
	[_] Rule 13d-1(d)						
in: and	e remainder of this cover page shall be itial filing on this form with respect d for any subsequent amendment containi e disclosures provided in a prior cover	to the subject class of securities, ng information which would alter	;				
deer Act of t	information required in the remainder med to be "filed" for the purpose of Se of 1934 ("Act") or otherwise subject the Act but shall be subject to all other the Notes).	ection 18 of the Securities Exchange to the liabilities of that section					
CUS	IP NO. 632347100 13	3G Page 2 of 8 Pa 	iges				
(1)	NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only).						
	Renaissance Technologies LLC 26	;-0385758					
(2)	(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): (a) [_] (b) [_]						
(3)	SEC USE ONLY						
(4)	CITIZENSHIP OR PLACE OF ORGANIZATION						
	Delaware						
		(5) SOLE VOTING POWER					
	NUMBER OF SHARES BENEFICIALLY OWNED	208,626					
	BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER					
		0					
		(7) SOLE DISPOSITIVE POWER					

)	AGGREGATE AMOUNT BENEFIC	IALLY OWNED BY E	EACH REPOR	TING PERSON		
		228,400				
10)	CHECK BOX IF THE AGGREGA (SEE INSTRUCTIONS)	TE AMOUNT IN ROV	√ (9) EXCL	UDES CERTAIN SHARES		
 11)	PERCENT OF CLASS REPRES	 ENTED BY AMOUNT	 IN ROW (9			
		5.46 %				
2)	TYPE OF REPORTING PERSON	(SEE INSTRUCTIO	 DNS)			
	IA					
-==		Page 2 of 8 p	_			
		Page 3 of 8 p				
JUS	IP NO. 632347100	13G		Page 3 of 8		
(1)	NAMES OF REPORTING PERSON I.R.S. IDENTIFICATION N		RSONS (ENT	ITIES ONLY).		
	RENAISSANCE TECHNOLOGIES	HOLDINGS CORPOR	RATION	13-3127734		
2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) [_] (b) [_]					
3)	SEC USE ONLY					
) (CITIZENSHIP OR PLACE OF O					
	Delaware					
				LE VOTING POWER		
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING					
			208,626			
	PERSON WITH:		(6) SH	ARED VOTING POWER		
				0		
			(7) S	OLE DISPOSITIVE POWER		
				215,822		
			(8) S	HARED DISPOSITIVE POWE		
				12,578		
)	AGGREGATE AMOUNT BENEFIC	IALLY OWNED BY E	EACH REPOR	TING PERSON		
		228,400				
.0)	CHECK BOX IF THE AGGREGA (SEE INSTRUCTIONS)	re amount in rov	V (9) EXCL	UDES CERTAIN SHARES		
 11)	PERCENT OF CLASS REPRES		IN ROW (9)		
		5.46 %	•			
 12)	TYPE OF REPORTING PERSON		ONS)			
		Page 3 of 8 p	pages			

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Item 1.

(a) Name of Issuer

NATHAN'S FAMOUS, INC.

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

One Jericho Plaza, Second Floor - Wing A, Jericho, New York 11753

Item 2.

(a) Name of Person Filing:

This Schedule 13G is being filed by Renaissance Technologies LLC ("RTC") and Renaissance Technologies 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 of \$.01

(e) CUSIP Number.

632347100

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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) $\begin{bmatrix} -1 \end{bmatrix}$ Bank as defined in section 3(a)(6) of the Act.
- Insurance Company as defined in section 3(a)(19) of the Act. (c) [_]
- (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:

228,400 shares 228,400 shares, comprising the shares beneficially owned RTHC: by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

5.46 % RTC: RTHC: 5.46 %

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

RTC: 208,626 RTHC: 208,626

Ω

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

RTC: 215,822 RTHC: 215,822

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

RTC: 12,578 RTHC: 12,578

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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

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 of \$.01 of NATHAN'S FAMOUS, INC.

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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