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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 2)*

	EXTREME NETWORKS, INC.
((Name of Issuer)
	Common Stock, \$.001 par value
(Title of	Class of Securities)
	30226D106
·	CUSIP Number) December 31, 2009
(Date of Event Whi	ich Requires Filing of this Statement)
Check the appropriate box to design Schedule is filed:	gnate 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 ior cover page.
deemed to be "filed" for the purpo Act of 1934 ("Act") or otherwise s	emainder of this cover page shall not be ose of Section 18 of the Securities Exchange subject to the liabilities of that section o all other provisions of the Act (however,
CUSIP NO. 30226D106	13G Page 2 of 8 Pa
	rage 2 01 0 Fa
(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) [_] (b) [_]	A MEMBER OF A GROUP (SEE INSTRUCTIONS):
(3) SEC USE ONLY	
(4) CITIZENSHIP OR PLACE OF ORGANI	
Delaware	
	(5) SOLE VOTING POWER
NUMBER OF SHARES	5,360,295
BENEFICIALLY OWNED	
BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER
	0
	(7) SOLE DISPOSITIVE POWER
	5,360,295

		ō
(9) AGGREGATE AMOUNT BENEFICIA	LLY OWNED BY EAC	H REPORTING PERSON
5	, 360, 295	
(10) CHECK BOX IF THE AGGREGATE	: AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
(SEE INSTRUCTIONS)		[_]
(11) PERCENT OF CLASS REPRESEN	ITED BY AMOUNT IN	
` ,	5.02%	·
(12) TYPE OF REPORTING PERSON ()
IA	Page 2 of 8 pag	98
CUSIP NO. 30226D106	13G	Page 3 of 8 Pag
(1) NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS James H. Simons		NS (ENTITIES ONLY).
(2) CHECK THE APPROPRIATE BOX	IF A MEMBER OF A	GROUP (SEE INSTRUCTIONS)
(a) [_] (b) [_]		
(4) CITIZENSHIP OR PLACE OF ORG	ANIZATION	
United States		
		(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		5,360,295
		(6) SHARED VOTING POWER
		0
		(7) SOLE DISPOSITIVE POWER
		5,360,295
		(8) SHARED DISPOSITIVE POWER
		0
(9) AGGREGATE AMOUNT BENEFICIA	LLY OWNED BY EAC	H REPORTING PERSON
5	, 360, 295	
(10) CHECK BOX IF THE AGGREGATE (SEE INSTRUCTIONS)		9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESEN		ROW (9)
6	5.02 %	
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
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		•

(8) SHARED DISPOSITIVE POWER

Item 1. (a) Name of Issuer EXTREME NETWORKS, INC. (b) Address of Issuer's Principal Executive Offices. 3585 Monroe Street, Santa Clara, California 95051 Item 2. (a) Name of Person Filing: This Schedule 13G is being filed by Renaissance Technologies LLC ("RTC") and James H. Simons ("Simons"). (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. Dr. Simons is a United States citizen and RTC is a Delaware limited liability company. (d) Title of Class of Securities. Common Stock, \$.001 par value (e) CUSIP Number. 30226D106 Page 4 of 8 pages 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: Broker or dealer registered under section 15 of the Act. (a) [_] Bank as defined in section 3(a)(6) of the Act. (b) [_] (c) [_] Insurance Company as defined in section 3(a)(19) of the Act. Investment Company registered under section 8 of the Investment (d) [_] Company Act. Investment Adviser in accordance with Sec.240.13d-1(b)(1)(ii)(E). (e) [x] Employee Benefit Plan or Endowment Fund in accordance with (f) [_] Sec. 240.13d-1(b)(1)(ii)(F). Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G). (g) $[_{-}]$ (h) [_] A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act. A church plan that is excluded from the definition of an investment (i) [_] company under section 3(c)(14) of the Investment Company Act of 1940. Group, in accordance with Sec.240.13d-1(b)(1)(ii)(J). (j) [_] Item 4. Ownership. (a) Amount beneficially owned. RTC: 5,360,295 shares Simons: 5,360,295 shares, comprising the shares beneficially owned by RTC, because of Dr. Simons' position as control person of RTC. (b) Percent of Class. RTC: 6.02 % Simons: 6.02 % (c) Number of shares as to which the person has: (i) sole power to vote or to direct the vote: RTC: 5,360,295 Simons: 5,360,295 (ii) Shared power to vote or to direct the vote: 0

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

RTC: 5,360,295 Simons: 5,360,295

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

RTC: 0 Simons: 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.

RIEF Trading LLC holds of record more than 5% of such securities.

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. $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left(\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{$

Date: February 12, 2010

James H. Simons

Renaissance Technologies LLC

By: Mark Silber Executive Vice President

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

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, \$.001 par value of EXTREME NETWORKS, INC.

Date: February 12, 2010

James H. Simons

Renaissance Technologies LLC

By: Mark Silber

Executive Vice President

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