### COGENT COMMUNICATIONS HOLDINGS, INC.

Form SC 13G/A February 13, 2019

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

SCHEDULE 13G

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

	COGENT COMMUNICA	TIONS HOLDINGS, INC.
	(Name of Issuer)	
(	Common Stock, \$.001 par	value
(Title o	of Class of Securities)	
	19239V302	
	(CUSIP Number) December 31, 2018	3
(Date of Event Wh	hich Requires Filing of t	this Statement)
Check the appropriate box to desi	ignate the rule pursuant	to which this
[X] Rule 13d-1(b)		
[_] Rule 13d-1(c)		
[_] Rule 13d-1(d)		
*The remainder of this cover page initial filing on this form with and for any subsequent amendment the disclosures provided in a page	h respect to the subject t containing information	class of securities,
The information required in the deemed to be "filed" for the purp Act of 1934 ("Act") or otherwise of the Act but shall be subject to see the Notes).	pose of Section 18 of the subject to the liabilit:	Securities Exchange ies of that section
CUSIP NO. 19239V302	  13G	  Page 2 of 8 Pages
(1) NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS		
Renaissance Technologies LI	LC 26-0385758	
(2) CHECK THE APPROPRIATE BOX II		EE INSTRUCTIONS):

	(b) [_]		
(3)	SEC USE ONLY		
(4)	CITIZENSHIP OR PLACE OF ORGA	NIZATION	
	Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		(5) SOLE VOTING POWER	
	3,404,295		
		(6) SHARED VOTING POWER	
		0	
		(7) SOLE DISPOSITIVE POWER	
		3,405,695	
		(8) SHARED DISPOSITIVE POWER	
		7,905	
(9)	AGGREGATE AMOUNT BENEFICIAL	LY OWNED BY EACH REPORTING PERSON	
	3,	413,600	
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	(SEE INSTRUCTIONS)	[_]	
(11)	PERCENT OF CLASS REPRESENT	ED BY AMOUNT IN ROW (9)	
	7.	35 %	
(12)	TYPE OF REPORTING PERSON (S	EE INSTRUCTIONS)	
		Page 2 of 8 pages	
	 IP NO. 19239V302	13G Page 3 of 8 Page.	
(1)	NAMES OF REPORTING PERSONS.	OF ABOVE PERSONS (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 OR PLACE OF ORGANIZATION	
Delaware	
	(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED	3,404,295
BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER
	(7) SOLE DISPOSITIVE POWER
	3,405,695
	(8) SHARED DISPOSITIVE POWER
	7,905
(9) AGGREGATE AMOUNT BENEFICIALLY OWNED	BY EACH REPORTING PERSON
3,413,600	
(10) CHECK BOX IF THE AGGREGATE AMOUNT IN (SEE INSTRUCTIONS) [_]	ROW (9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESENTED BY AMO	UNT IN ROW (9)
7.35 %	
(12) TYPE OF REPORTING PERSON (SEE INSTRU	CTIONS)
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	3G Page 4 of 8 Pages
Item 1.	
(a) Name of Issuer	
COGENT COMMUNICATIONS HOLDINGS, I	NC.
(b) Address of Issuer's Principal Exe	cutive Offices.
2450 N Street N.W., Washington,	D.C. 20037
Item 2.	
(a) Name of Person Filing:	
This Schedule 13G is being filed	by Renaissance Technologies LLC gies 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, \$.001 par value

(e) CUSIP Number.

19239V302

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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:

3,413,600 shares 3,413,600 shares, comprising the shares beneficially owned RTHC: by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 7.35 % RTHC: 7.35 %

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

RTC: 3,404,295 RTHC: 3,404,295

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

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

RTC: 3,405,695 RTHC: 3,405,695

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

RTC: 7,905 RTHC: 7,905

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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 12, 2019

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, \$.001 par value of COGENT COMMUNICATIONS HOLDINGS, INC.

Date: February 12, 2019

Renaissance Technologies LLC

By: /s/ Mark Silber
Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber Vice President

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