ATHENAHEALTH INC Form SC 13G/A February 17, 2009

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
SCHEDULE 13G
Under the Securities Exchange Act of 1934
(Amendment No. 1)*
ATHENAHEALTH, INC.

(Name of Issuer) COMMON STOCK

(Title of Class of Securities) 04685W 10 3

> (CUSIP Number) December 31, 2008

(Date of Event Which Requires Filing of this Statement) Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- o Rule 13d-1(c)
- þ Rule 13d-1(d)

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 (Act) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

^{*} The remainder of this cover page shall be filled out for a reporting person s initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

CUSIP No. 13G 04685W103 Page _2_ of _9_ pages NAME OF REPORTING PERSON 1 Venrock Associates CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) b¹ (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 New York, United States **SOLE VOTING POWER** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** OWNED BY 1,945,0232 **EACH** SOLE DISPOSITIVE POWER 7 REPORTING **PERSON** 0 WITH SHARED DISPOSITIVE POWER 8 1,945,0232 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

10

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

 $5.9\%^{3}$

TYPE OF REPORTING PERSON*

12

PN

¹ Venrock Associates, Venrock Associates II, L.P., Venrock Entrepreneurs Fund, L.P. and Venrock Management, LLC, the general partner of Venrock Entrepreneurs Fund, L.P., are members of a group for purposes of this Schedule 13G.

² Consists of (i) 763,159 shares of common stock owned by Venrock Associates; (ii) 1,098,176 shares of common stock owned by Venrock Associates II, L.P.; and (iii) 83,688 shares of common stock owned by Venrock Entrepreneurs Fund, L.P. Venrock Management, LLC is the general partner of Venrock Entrepreneurs Fund, L.P.

³ This percentage is calculated based upon 33,180,624 shares of the Issuer's common stock outstanding as of November 5, 2008, as set forth in the Issuer s most recent Form 10-Q for the quarter ended September 30, 2008, filed with the Securities and Exchange Commission on November 7, 2008.

13G CUSIP No. 04685W103 Page _3_ of _9_pages NAME OF REPORTING PERSON 1 Venrock Associates II, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) b¹ (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 New York, United States **SOLE VOTING POWER** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** OWNED BY 1,945,0232 **EACH** SOLE DISPOSITIVE POWER 7 REPORTING **PERSON** 0 WITH SHARED DISPOSITIVE POWER 8 1,945,0232 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

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CUSIP No. 13G 04685W103 Page _4_ of _9_ pages NAME OF REPORTING PERSON 1 Venrock Entrepreneurs Fund, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) 2 (a) b¹ (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 New York, United States **SOLE VOTING POWER** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** OWNED BY 1,945,0232 **EACH** SOLE DISPOSITIVE POWER 7 REPORTING **PERSON** 0 WITH SHARED DISPOSITIVE POWER 8 1,945,0232 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

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TYPE OF REPORTING PERSON*

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CUSIP No. 13G 04685W103 Page _5_ of _9_ pages NAME OF REPORTING PERSON 1 Venrock Management, LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) 2 (a) b¹ (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 Delaware, United States **SOLE VOTING POWER** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** OWNED BY 1,945,0232 **EACH** SOLE DISPOSITIVE POWER 7 REPORTING **PERSON** 0 WITH SHARED DISPOSITIVE POWER 8 1,945,0232 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

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TYPE OF REPORTING PERSON*

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CUSIP No. 04685W103

13G

Page _6_ of _9_ pages

Introductory Note: This Statement on Schedule 13G is filed on behalf of Venrock Associates, a limited partnership organized under the laws of the State of New York (Venrock), Venrock Associates II, L.P., a limited partnership organized under the laws of the State of New York (Venrock II), Venrock Entrepreneurs Fund, L.P., a limited partnership organized under the laws of the State of New York (Entrepreneurs Fund) and Venrock Management, LLC, a limited liability company organized under the laws of the State of Delaware (Venrock Management and collectively with Venrock, Venrock II and Entrepreneurs Fund, the Venrock Entities) in respect of shares of common stock of athenahealth, Inc.

Item 1(a) Name of Issuer:

athenahealth. Inc.

Item 1(b) Address of Issuer s Principal Executive Offices:

311 Arsenal Street

Watertown, MA 02472

Item 2(a) Name of Person Filing:

Venrock Associates

Venrock Associates II, L.P.

Venrock Entrepreneurs Fund, L.P.

Venrock Management, LLC

Item 2(b) Address of Principal Business Office or, if none, Residence:

New York Office: Palo Alto Office: Cambridge Office:

530 Fifth Avenue 3340 Hillview Avenue 55 Cambridge Parkway

22nd Floor Palo Alto, CA 94304 Suite 100

New York, NY 10036 Cambridge, MA 02142

Item 2(c) Citizenship:

Each of Venrock, Venrock II and Entrepreneurs Fund are limited partnerships organized in the State of New York. Venrock Management is a limited liability company organized under the laws of the State of Delaware.

Item 2(d) Title of Class of Securities:

Common Stock

Item 2(e) CUSIP Number

04685W 103

Item 3 Not applicable.

Item 4 Ownership

(a) and (b)

Venrock beneficially owns 763,159 shares of common stock, or 2.3% of the outstanding shares of common stock. Venrock II beneficially owns 1,098,176 shares of common stock, or 3.3% of the outstanding shares of common stock.

CUSIP No. 04685W103 **13G** Page _7_ of _9_ pages Entrepreneurs Fund beneficially owns 83,688 shares of common stock, or 0.2% of the outstanding shares of common

Entrepreneurs Fund beneficially owns 83,688 shares of common stock, or 0.2% of the outstanding shares of common stock.

(c)

Each of the Venrock Entities has sole power to vote or to direct the vote of no shares of the common stock, sole power to dispose or to direct the disposition of no shares of the common stock, shared power to vote or to direct the vote of 1,945,023 shares of the common stock and shared power to dispose or to direct the disposition of 1,945,023 shares of the common stock.

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 o.

Item 6 Ownership of More than Five Percent on Behalf of Another Person:

Not applicable.

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:

This Schedule is being filed pursuant to Rule 13d-1(d). The identities of each of the Venrock Entities are stated in Item 2(a).

Item 9 Notice of Dissolution of Group:

Not applicable.

Item 10 Certification

Not applicable.

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.

Dated: February 17, 2009 VENROCK ASSOCIATES

By: /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory

VENROCK ASSOCIATES II, L.P.

By: /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory

VENROCK ENTREPRENEURS FUND, L.P.

By: Venrock Management, LLC

Its: General Partner

By: /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory

VENROCK MANAGEMENT, LLC

By: /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory

CUSIP No. 04685W103 **13G** Page _9_ of _9_ pages **EXHIBIT INDEX**

Exhibit No.

99.1 Agreement pursuant to Rule13d-1(k)(1) among Venrock Associates, Venrock Associates II, L.P., Venrock Entrepreneurs Fund, LP. and Venrock Management, LLC.