Bush Jonathan Form 4 October 15, 2009

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

2005 Estimated average burden hours per 0.5 response...

OMB APPROVAL

3235-0287

January 31,

OMB

Number:

Expires:

subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Check this box

if no longer

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

| 1. Name and Address of Reporting Person * Bush Jonathan | | | 2. Issuer Name and Ticker or Trading Symbol | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | | |
|---|--|-----|--|---|--|--|--|
| (Last) (First) (Middle) | | | ATHENAHEALTH INC [ATHN] 3. Date of Earliest Transaction | | | | |
| C/O ATHENAHEALTH, INC., 311 ARSENAL STREET | | , , | (Month/Day/Year) 10/15/2009 | _X_ Director 10% Owner Selfow) Other (give title Other (specify below) CEO and President | | | |
| (Street) | | | 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person | | | |
| WATERTOWN, MA 02472 | | | | Form filed by More than One Reporting Person | | | |

| | | | | | | | | 1 013011 | | |
|------|---------------------------|--------------------------------------|---|---|----------------------------------|--------|-------------|--|--|---|
| | (City) | (State) (| (Zip) Table | e I - Non-D | erivative | Secur | ities Acq | uired, Disposed of | f, or Beneficial | ly Owned |
| Secu | tle of urity ur. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securi on(A) or Di (Instr. 3, | ispose | d of (D) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| Cor | nmon ck | 10/15/2009 | | S | | . , | | 241,974 | I | See Footnote |
| Cor | nmon ck | 10/15/2009 | | S | 100 (1) | D | \$ 38.81 | 241,874 | I | See Footnote |
| Cor | nmon ck | 10/15/2009 | | S | 100 (1) | D | \$ 38.83 | 241,774 | I | See Footnote (2) |
| Cor | nmon ck | 10/15/2009 | | S | 200 (1) | D | \$ 38.73 | 241,574 | I | See Footnote |

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| | | | | | | | (2) |
|-----------------|------------|---|-----------|-------------|---------|---|------------------|
| Common Stock | 10/15/2009 | S | 100 (1) D | \$ 38.95 | 241,474 | I | See Footnote |
| Common Stock | | | | | 332,832 | D | |
| Common Stock | | | | | 100,000 | I | See Footnote (3) |
| Common Stock | | | | | 2,354 | I | See Footnote |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474

(9-02)

9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exer | cisable and | 7. Title | and | 8. Price of |
|-------------|-------------|---------------------|--------------------|-----------|-------------------------------|--------------|-------------|-----------|----------|-------------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transac | tionNumber | Expiration D | ate | Amoun | nt of | Derivative |
| Security | or Exercise | | any | Code | of | (Month/Day | /Year) | Underl | ying | Security |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8 | Derivativ | /e | | Securit | ties | (Instr. 5) |
| | Derivative | | | | Securitie | s | | (Instr. 3 | 3 and 4) | |
| | Security | | | | Acquired | 1 | | | | |
| | | | | | (A) or | | | | | |
| | | | | | Disposed | l | | | | |
| | | | | | of (D) | | | | | |
| | | | | | (Instr. 3, | | | | | |
| | | | | | 4, and 5) | | | | | |
| | | | | | | | | | | |
| | | | | | | | | 4 | Amount | |
| | | | | | | Date | Expiration | | or | |
| | | | | | | Exercisable | Date | | Number | |
| | | | | | | | | | of | |
| | | | | Code | V (A) (D) | | | 3 | Shares | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|--------------------------------|---------------|-----------|-------------------|-------|--|--|--|
| 1 8 | Director | 10% Owner | Officer | Other | | | |
| Bush Jonathan | | | | | | | |
| C/O ATHENAHEALTH, INC. | X | | CEO and President | | | | |
| 311 ARSENAL STREET | Λ | | CEO and Flesident | | | | |
| WATERTOWN, MA 02472 | | | | | | | |

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Signatures

/s/ Daniel H. Orenstein Attorney-in-Fact

10/15/2009

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) The sales reported on this Form 4 were made pursuant to a written trading plan adopted by the trustees of The Bush 2004 Gift Trust (see footnote 2) on June 9, 2009, in accordance with Rule 10b5-1.
- These shares are owned by The Bush 2004 Gift Trust, the beneficiaries of which are certain of Mr. Bush's children. The Reporting Person (2) disclaims beneficial ownership of these securities, and this report shall not be deemed an admission that the Reporting Person is the beneficial owner of the securities for purposes of Section 16 or for any other purpose.
- These shares are owned by The Jonathan J. Bush, Jr. Grantor Retained Annuity Trust Dated July 15, 2008, the beneficiaries of which are Mr. Bush and certain of his children. The Reporting Person disclaims beneficial ownership of these securities, and this report shall not be deemed an admission that the Reporting Person is the beneficial owner of the securities for purposes of Section 16 or for any other purpose.
- These shares are owned by The Oscar W. Bush 2007 Gift Trust, the beneficiary of which is Mr. Bush's child. The Reporting Person (4) disclaims beneficial ownership of these securities, and this report shall not be deemed an admission that the Reporting Person is the beneficial owner of the securities for purposes of Section 16 or for any other purpose.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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