

SHEFFERY MICHAEL B
 Form 4
 March 18, 2009

FORM 4

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

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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 *
 SHEFFERY MICHAEL B

(Last) (First) (Middle)

767 THIRD AVENUE, 30TH FLOOR

(Street)

NEW YORK, NY 10017

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 ATERSYS, INC / NEW [ATHX]

3. Date of Earliest Transaction (Month/Day/Year)
 03/16/2009

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director 10% Owner
 Officer (give title below) Other (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	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)
				(A) or (D) Price			
Common Stock	03/16/2009		P	52,200 A \$ 0.65	3,500,200	I	By Partnerships (1) (2)
Common Stock	03/17/2009		P	110,000 A \$ 0.84	3,610,200	I	By Partnerships (1) (2)

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

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SEC 1474 (9-02)

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Following Transaction (Instr. 5)
				Code V (A) (D)		Date Exercisable Expiration Date	Title	Amount or Number of Shares	

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SHEFFERY MICHAEL B 767 THIRD AVENUE 30TH FLOOR NEW YORK, NY 10017	X			

Signatures

/s/ Michael B. Sheffery 03/18/2009

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).
- The Reporting Person is a partner of OrbiMed Advisors LLC ("Advisors") and OrbiMed Capital GP III LLC ("Capital"). The amount shown represents (i) 3,576,200 shares of Common Stock held directly by Caduceus Private Investments III, LP ("Caduceus") and (ii)
- (1) 34,000 shares of Common Stock held directly by OrbiMed Associates III, LP ("Associates"). Advisors, pursuant to its authority under its investment advisory contract with Associates, may be considered to hold indirectly 34,000 shares of Common Stock and Capital, pursuant to its authority as general partner of Caduceus, may be considered to hold indirectly 3,576,200 shares of Common Stock.
- The Reporting Person disclaims beneficial ownership except to the extent of his pecuniary interest. This report shall not be deemed an
- (2) admission that the Reporting Person is a beneficial owner for the purpose of Section 16 of the Exchange Act of 1934, as amended, 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.