SHEFFERY MICHAEL B

Form 4

January 12, 2010

FORM 4

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

OMB Number: 3235-0287

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Expires: January 31, 2005

OMB APPROVAL

SECURITIES

Estimated average burden hours per response... 0.5

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

Check this box

if no longer

subject to

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			2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
			ATHERSYS, INC / NEW [ATHX]	(Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction				
			(Month/Day/Year)	X Director 10% Owner			
767 THIRD AVENUE, 30TH FLOOR			12/28/2009	Officer (give title Other (specify below)			
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person			
NEW YORK, NY 10017				Form filed by More than One Reporting Person			

(City)	(State)	(Zip) 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. Transactic Code (Instr. 8)	(A) or		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)	
Common Stock	12/28/2009		J <u>(1)</u>	1,800,153	D D	\$ 0	1,810,047	I	By Partnerships (2)
Common Stock	12/28/2009		<u>J(3)</u>	3,406	A	\$0	3,406	D	
Common Stock	01/07/2010		J <u>(4)</u>	4,947	D	\$ 0	1,805,100	I	By Partnerships (2)
Common Stock	01/07/2010		<u>J(5)</u>	466	A	\$0	3,872	D	

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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 Exerc	cisable and	7. Titl	le and	8. Price of	9
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	onNumber	Expiration Da	ate	Amou	int of	Derivative	J
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	,
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Secur	ities	(Instr. 5)]
	Derivative				Securities			(Instr.	3 and 4)		(
	Security				Acquired						J
					(A) or						J
					Disposed						7
					of (D)						(
					(Instr. 3,						
					4, and 5)						
									Amount		
						Date	Expiration	Title	or Number		
						Exercisable Date	Date	Title	of		
				Code V	(A) (D)						
				Code v	(A) (D)				Shares		

Reporting Owners

	Relationships
Reporting Owner Name / Address	•

Director 10% Owner Officer Other

SHEFFERY MICHAEL B 767 THIRD AVENUE 30TH FLOOR NEW YORK, NY 10017

X

Signatures

/s/ Michael B. 01/12/2010 Sheffery

**Signature of Date
Reporting Person

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"). On December 28, 2009 Capital and Advisors made an in-kind distribution of the Common Stock to investors in Caduceus Private Investments III, LP ("Caduceus") and OrbiMed Associates III, LP ("Associates"). Following this in-kind distribution, Caduceus, Associates and Advisors hold 1,788,100, 17,000 and 4,947 shares, respectively. Advisors, pursuant to its authority as general partner of Associates, may be considered to hold indirectly 17,000 shares of Common Stock and Capital, pursuant to its authority as general partner of Caduceus, may be considered to hold indirectly 1,788,100 shares of Common Stock.

(2)

Reporting Owners 2

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The Reporting Person disclaims beneficial ownership except to the extent of his pecuniary interest. This report shall not be deemed an 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.

- (3) Of the in-kind distribution of the Common Stock made to investors in Caduceus, as described in the note 1, 3,406 were allocated to the Reporting Person. These are the only shares of Common stock held directly by the Reporting Person.
 - On January 7, 2010 Advisors distributed 4,947 shares of Common Stock to its partners, including a distribution of 466 shares to the Reporting Person. Following this transaction, Caduceus and Associates, hold 1,788,100 and 17,000 shares, respectively. Advisors,
- (4) pursuant to its authority as general partner of Associates, may be considered to hold indirectly 17,000 shares of Common Stock and Capital, pursuant to its authority as general partner of Caduceus, may be considered to hold indirectly 1,788,100 shares of Common Stock.
- (5) Following the in-kind distribution made to the Reporting Person, directly holds 3,872 shares of Common Stock.

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.