Shea Richard P Form 4 February 27, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

OMB APPROVAL

3235-0287

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if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

Check this box

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

Shea Richard P

2. Issuer Name and Ticker or Trading

Symbol

MOMENTA

PHARMACEUTICALS INC

[MNTA]

(Last)

(First) (Middle) 3. Date of Earliest Transaction

(Month/Day/Year) 02/25/2009

Director X_ Officer (give title below) below)

10% Owner Other (specify

SVP, CFO

(Check all applicable)

5. Relationship of Reporting Person(s) to

MOMENTA

PHARMACEUTICALS, 675 WEST

KENDALL STREET

(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 Form filed by More than One Reporting

Issuer

CAMBRIDGE, MA 02142

(City) (State) (Zip)

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

1. Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5) 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) 6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

(A) or Price

(Instr. 3 and 4)

Code V Amount (D)

Common 02/25/2009 Stock

8,550 A (1)

\$0 34,469 D

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

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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. Transactio Code (Instr. 8)	5. Number of or 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)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (Right to Buy)	\$ 10.43	02/25/2009		A	17,100 (2)	05/25/2009	02/25/2019	Common Stock	17,100

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Shea Richard P

MOMENTA PHARMACEUTICALS 675 WEST KENDALL STREET CAMBRIDGE, MA 02142

SVP, CFO

Signatures

/s/ Michael Flanagan as attorney in fact

02/27/2009

**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).

Represents 8550 shares of restricted common stock, \$0.0001 par value per share, awarded pursuant to the Company's 2004 Stock Incentive Plan, as amended, and subject to a restricted stock agreement to be entered into between the Company and Mr. Shea. Pursuant to the restricted stock agreement, 25% of the shares of restricted Common Stock shall vest on February 25, 2010 and an additional 6.25% of the shares of restricted Common Stock shall vest at the end of each three-month period thereafter.

- (2) Represents an option granted by the issuer pursuant to the issuer's 2004 Stock Incentive Plan. Subject to certain criteria, the shares subject to such option vest as to 6.25% of the shares at the end of each three-month period following the grant date
- (3) Includes multiple option grants with different prices and vesting dates

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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