

Shea Richard P
 Form 4
 February 22, 2010

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 *
 Shea Richard P

2. Issuer Name and Ticker or Trading Symbol
 MOMENTA
 PHARMACEUTICALS INC
 [MNTA]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

____ Director
 Officer (give title below)
 ____ 10% Owner
 ____ Other (specify below)
 SVP, CFO

(Last) (First) (Middle)

3. Date of Earliest Transaction
 (Month/Day/Year)
 02/18/2010

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)

Form filed by One Reporting Person
 Form filed by More than One Reporting Person

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 (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 Ownership (Instr. 4)
			Code	V	Amount (D) Price		
Common Stock	02/18/2010		A		9,500 <u>(1)</u>	A	\$ 0 42,084 D

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)				
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (Right to Buy)	\$ 15.37	02/18/2010		A	23,750 (2)	05/18/2010	02/18/2020			Common Stock	23,750

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
02/22/2010
**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) 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 18, 2011 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.