Shea Richard P Form 4 December 20, 2007

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

OMB APPROVAL

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Check this box

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

Form 5 obligations may continue. See Instruction

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)

08/15/2007

X_ Officer (give title below)

Director

Issuer

10% Owner Other (specify

below) VP, 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

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 any

Code (Month/Day/Year) (Instr. 8)

3.

Transaction(A) or Disposed of (D) (Instr. 3, 4 and 5)

4. Securities Acquired 5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

Reported Transaction(s)

(Instr. 3 and 4) Price

Common Stock

08/15/2007

 $A^{(1)}$

Code V

Amount 15,000

\$0 Α

(A)

or

(D)

16,708

D

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

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(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. Transactio Code (Instr. 8)	5. Number of or Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	vative Expiration Date (Month/Day/Year) varied (A) isposed of cr. 3, 4,		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)	\$ 10.41	08/15/2007		A(2)	15,000	11/15/2007	08/15/2017	Common Stock	15,000

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
Shea Richard P						
MOMENTA PHARMACEUTICALS			VD CEO			
675 WEST KENDALL STREET			VP, CFO			

Signatures

CAMBRIDGE, MA 02142

/s/ Richard P.
Shea

12/20/2007

**Signature of Pate 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 15,000 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 August 15, 2008 and an additional 6.25% of the shares of restricted Common Stock shall vest at the end of each three-month period thereafter.
- 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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