Shea Richard P Form 4 May 22, 2012

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

OMB

Washington, D.C. 20549

3235-0287 Number:

January 31,

2005

OMB APPROVAL

if no longer subject to Section 16. Form 4 or

Check this box

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

Estimated average burden hours per response... 0.5

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

Expires:

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

MOMENTA

Security

(Instr. 3)

(Month/Day/Year)

below)

05/21/2012

Director 10% Owner X_ Officer (give title Other (specify

> below) SVP, CFO

PHARMACEUTICALS, 675 WEST

KENDALL STREET

(Street)

4. If Amendment, Date Original

(Instr. 8)

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) 1. Title of 2. Transaction Date 2A. Deemed

(Month/Day/Year)

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

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

5. Amount of Securities Beneficially (D) or Owned Indirect (I) Following (Instr. 4)

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

(Month/Day/Year)

Execution Date, if

any

Reported (A) Transaction(s) or

Price Code Amount (D)

(Instr. 3 and 4)

95,693

Common 05/21/2012 Stock

 $S^{(1)}$ 192 D 13.87

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	2. Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	4. Transacti	5. orNumber	6. Date Exerc Expiration D		7. Title Amount		8. Price of Derivative	9. Nu Deriv
Security (Instr. 3)	or Exercise Price of Derivative Security	(any (Month/Day/Year)	Code (Instr. 8)	of	(Month/Day/Year)		Underlying Securities (Instr. 3 and 4)		Security (Instr. 5)	Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title N	Amount or Number of Shares		

Reporting Owners

Relationships Reporting Owner Name / Address 10% Owner Officer Other Director

Shea Richard P MOMENTA PHARMACEUTICALS 675 WEST KENDALL STREET CAMBRIDGE, MA 02142

SVP, CFO

Signatures

/s/ Eric Shaff as attorney in fact

05/22/2012

**Signature of 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).
- (1) This sale was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 28, 2008.

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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