

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934  
(Amendment No. )\*

Momenta Pharmaceuticals, Inc.

-----  
(Name of Issuer)

Common Stock, \$.0001 Par Value Per Share

-----  
(Title of Class of Securities)

60877T101

-----  
(CUSIP Number)

June 16, 2005

-----  
(Date of Event which Requires Filing  
of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)  
 Rule 13d-1(c)  
 Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP No. 60877T101

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-----  
1 NAME OF REPORTING PERSON  
I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

S.A.C. Capital Advisors, LLC

-----  
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a)   
(b)

-----  
3 SEC USE ONLY

-----  
4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

-----  
5 SOLE VOTING POWER

0

-----  
 NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH  
 6 SHARED VOTING POWER  
 3,900 (see Item 4)  
 -----  
 7 SOLE DISPOSITIVE POWER

0

-----  
 8 SHARED DISPOSITIVE POWER  
 3,900 (see Item 4)  
 -----

-----  
 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
 3,900 (see Item 4)  
 -----

-----  
 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  
 [ ]  
 -----

-----  
 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  
 Less than 0.1% (see Item 4)  
 -----

-----  
 12 TYPE OF REPORTING PERSON\*  
 00  
 -----

\*SEE INSTRUCTION BEFORE FILLING OUT

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-----  
 1 NAME OF REPORTING PERSON  
 I.R.S. IDENTIFICATION NO. OF ABOVE PERSON  
 S.A.C. Capital Management, LLC  
 -----

-----  
 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*  
 (a) [ ]  
 (b) [X]  
 -----

-----  
 3 SEC USE ONLY  
 -----

-----  
 4 CITIZENSHIP OR PLACE OF ORGANIZATION  
 Delaware  
 -----

-----  
 5 SOLE VOTING POWER  
 0  
 -----

-----  
 NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH  
 6 SHARED VOTING POWER  
 3,900 (see Item 4)  
 -----  
 7 SOLE DISPOSITIVE POWER

0

-----  
 8 SHARED DISPOSITIVE POWER  
 -----

3,900 (see Item 4)

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,900 (see Item 4)

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

[ ]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

Less than 0.1% (see Item 4)

12 TYPE OF REPORTING PERSON\*

00

\*SEE INSTRUCTION BEFORE FILLING OUT

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1 NAME OF REPORTING PERSON  
I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

S.A.C. MultiQuant Fund, LLC

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a) [ ]

(b) [X]

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Anguilla, British West Indies

5 SOLE VOTING POWER

0

NUMBER OF  
SHARES  
BENEFICIALLY OWNED  
BY EACH  
REPORTING PERSON  
WITH

6 SHARED VOTING POWER

3,900 (see Item 4)

7 SOLE DISPOSITIVE POWER

0

8 SHARED DISPOSITIVE POWER

3,900 (see Item 4)

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,900 (see Item 4)

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

[ ]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

Less than 0.1% (see Item 4)

12 TYPE OF REPORTING PERSON\*

00

\*SEE INSTRUCTION BEFORE FILLING OUT

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1 NAME OF REPORTING PERSON  
I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Sigma Capital Management, LLC

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a) [ ]  
(b) [X]

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5 SOLE VOTING POWER

0

NUMBER OF  
SHARES  
BENEFICIALLY OWNED  
BY EACH  
REPORTING PERSON  
WITH

6 SHARED VOTING POWER

2,108,210 (see Item 4)

7 SOLE DISPOSITIVE POWER

0

8 SHARED DISPOSITIVE POWER

2,108,210 (see Item 4)

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,108,210 (see Item 4)

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

[ ]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

8.3% (see Item 4)

12 TYPE OF REPORTING PERSON\*

00

\*SEE INSTRUCTION BEFORE FILLING OUT

1 NAME OF REPORTING PERSON  
I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Sigma Capital Associates, LLC

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a) [ ]  
(b) [X]

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Anguilla, British West Indies

5 SOLE VOTING POWER

0

NUMBER OF  
SHARES  
BENEFICIALLY OWNED  
BY EACH  
REPORTING PERSON  
WITH

6 SHARED VOTING POWER

2,108,210 (see Item 4)

7 SOLE DISPOSITIVE POWER

0

8 SHARED DISPOSITIVE POWER

2,108,210 (see Item 4)

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,108,210 (see Item 4)

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

[ ]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

8.3% (see Item 4)

12 TYPE OF REPORTING PERSON\*

00

\*SEE INSTRUCTION BEFORE FILLING OUT

1 NAME OF REPORTING PERSON  
I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Steven A. Cohen

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a) [ ]  
(b) [X]

-----  
3 SEC USE ONLY  
-----  
4 CITIZENSHIP OR PLACE OF ORGANIZATION  
-----  
United States  
-----  
5 SOLE VOTING POWER  
0  
-----  
NUMBER OF  
SHARES 6 SHARED VOTING POWER  
BENEFICIALLY OWNED 2,112,110 (see Item 4)  
BY EACH  
REPORTING PERSON 7 SOLE DISPOSITIVE POWER  
WITH 0  
-----  
8 SHARED DISPOSITIVE POWER  
2,112,110 (see Item 4)  
-----  
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
2,112,110 (see Item 4)  
-----  
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  
[ ]  
-----  
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  
8.3% (see Item 4)  
-----  
12 TYPE OF REPORTING PERSON\*  
IN  
-----

\*SEE INSTRUCTION BEFORE FILLING OUT

Item 1(a) Name of Issuer:  
-----

Momenta Pharmaceuticals, Inc.

Item 1(b) Address of Issuer's Principal Executive Offices:  
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675 West Kendall Street  
Cambridge, MA 02142

Items 2(a) Name of Person Filing:  
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This statement is filed by: (i) S.A.C. Capital Advisors, LLC, ("SAC Capital Advisors") with respect to shares of common stock, \$0.0001 par value per share ("Shares") of the Issuer beneficially owned by and S.A.C. MultiQuant Fund, LLC ("SAC MultiQuant"); (ii) S.A.C. Capital Management, LLC, ("SAC Capital Management") with respect to Shares beneficially owned by SAC MultiQuant; (iii) SAC MultiQuant with respect to Shares beneficially owned by it; (iv) Sigma Capital Management, LLC ("Sigma Capital Management") with respect to Shares beneficially owned by Sigma Capital Associates, LLC ("Sigma Capital Associates"); (v) Sigma Capital Associates with respect to Shares beneficially owned

by it; and (vi) Steven A. Cohen with respect to Shares beneficially owned by SAC Capital Advisors, SAC Capital Management, SAC MultiQuant, Sigma Capital Management and Sigma Capital Associates.

Item 2(b) Address of Principal Business Office:  
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The address of the principal business office of (i) SAC Capital Advisors and Mr. Cohen is 72 Cummings Point Road, Stamford, Connecticut 06902, (ii) SAC Capital Management and Sigma Capital Management is 540 Madison Avenue, New York, New York 10022, and (iii) SAC MultiQuant and Sigma Capital Associates is P.O. Box 58, Victoria House, The Valley, Anguilla, British West Indies.

Item 2(c) Citizenship:  
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SAC Capital Advisors, SAC Capital Management and Sigma Capital Management are Delaware limited liability companies. SAC MultiQuant and Sigma Capital Associates are Anguillan limited liability companies. Mr. Cohen is a United States citizen.

Item 2(d) Title of Class of Securities:  
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Common Stock, par value \$.0001 per share

Item 2(e) CUSIP Number:  
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60877T101

Item 3 Not Applicable

Item 4 Ownership:  
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The percentages used herein are calculated based upon the Shares issued and outstanding as of May 5, 2005 as reported on the Issuers's quarterly report on Form 10-Q filed with the Securities and Exchange Commission by the Company for the quarter ended March 31, 2005.

2005: As of the close of business on June 24,

1. S.A.C. Capital Advisors, LLC
  - (a) Amount beneficially owned: 3,900
  - (b) Percent of class: Less than 0.1%
  - (c) (i) Sole power to vote or direct the vote: -0-
  - (ii) Shared power to vote or direct the vote: 3,900
  - (iii) Sole power to dispose or direct the disposition: -0-
  - (iv) Shared power to dispose or direct the disposition: 3,900
2. S.A.C. Capital Management, LLC
  - (a) Amount beneficially owned: 3,900
  - (b) Percent of class: Less than 0.1%
  - (c) (i) Sole power to vote or direct the vote: -0-
  - (ii) Shared power to vote or direct the vote: 3,900
  - (iii) Sole power to dispose or direct the disposition: -0-
  - (iv) Shared power to dispose or direct the disposition: 3,900
3. S.A.C. MultiQuant Fund, LLC
  - (a) Amount beneficially owned: 3,900
  - (b) Percent of class: Less than 0.1%
  - (c) (i) Sole power to vote or direct the vote: -0-

- (ii) Shared power to vote or direct the vote: 3,900
- (iii) Sole power to dispose or direct the disposition: -0-
- (iv) Shared power to dispose or direct the disposition: 3,900

- 4. Sigma Capital Management, LLC
  - (a) Amount beneficially owned: 2,108,210
  - (b) Percent of class: 8.3%
  - (c) (i) Sole power to vote or direct the vote: -0-
  - (ii) Shared power to vote or direct the vote: 2,108,210
  - (iii) Sole power to dispose or direct the disposition: -0-
  - (iv) Shared power to dispose or direct the disposition: 2,108,210
- 5. Sigma Capital Associates LLC
  - (a) Amount beneficially owned: 2,108,210
  - (b) Percent of class: 8.3%
  - (c) (i) Sole power to vote or direct the vote: -0-
  - (ii) Shared power to vote or direct the vote: 2,108,210
  - (iii) Sole power to dispose or direct the disposition: -0-
  - (iv) Shared power to dispose or direct the disposition: 2,108,210
- 6. Steven A. Cohen
  - (a) Amount beneficially owned: 2,112,110
  - (b) Percent of class: 8.3%
  - (c) (i) Sole power to vote or direct the vote: -0-
  - (ii) Shared power to vote or direct the vote: 2,112,110
  - (iii) Sole power to dispose or direct the disposition: -0-
  - (iv) Shared power to dispose or direct the disposition: 2,112,110

SAC Capital Advisors, SAC Capital Management, Sigma Capital Management, and Mr. Cohen own directly no Shares. Pursuant to investment agreements, each of SAC Capital Advisors and SAC Capital Management share all investment and voting power with respect to the securities held by SAC MultiQuant. Pursuant to an investment management agreement, Sigma Capital Management maintains investment and voting power with respect to the securities held by Sigma Capital Associates. Mr. Cohen controls each of SAC Capital Advisors, SAC Capital Management and Sigma Capital Management. By reason of the provisions of Rule 13d-3 of the Securities Exchange Act of 1934, as amended, each of (i) SAC Capital Advisors, SAC Capital Management and Mr. Cohen may be deemed to own beneficially 3,900 Shares (constituting approximately less than 0.1% of the Shares outstanding) and (ii) Sigma Capital Management and Mr. Cohen may be deemed to own beneficially 2,108,210 Shares (constituting approximately 8.3% of the Shares outstanding). Each of SAC Capital Advisors, SAC Capital Management, Sigma Capital Management and Mr. Cohen disclaim beneficial ownership of any of the securities covered by this statement.

Item 5 Ownership of Five Percent or Less of a Class:  
-----

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following.

Item 6 Ownership of More than Five Percent on Behalf of Another  
-----  
Person:  
-----



Not Applicable

Item 7 Identification and Classification of the  
-----  
Subsidiary Which Acquired the Security Being  
-----  
Reported on By the Parent Holding Company:  
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Not Applicable

Item 8 Identification and Classification of Members  
-----  
of the Group:  
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Not Applicable

Item 9 Notice of Dissolution of Group:  
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Not Applicable

Item 10 Certification:  
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By signing below the signatory certifies that, to the best of his knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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SIGNATURE  
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After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: June 27, 2005

S.A.C. CAPITAL ADVISORS, LLC

By: /s/ Peter Nussbaum  
-----

Name: Peter Nussbaum  
Title: Authorized Person

S.A.C. CAPITAL MANAGEMENT, LLC

By: /s/ Peter Nussbaum  
-----

Name: Peter Nussbaum  
Title: Authorized Person

S.A.C. MULTIQUANT FUND, LLC

By: /s/ Peter Nussbaum  
-----

Name: Peter Nussbaum  
Title: Authorized Person

SIGMA CAPITAL MANAGEMENT, LLC

By: /s/ Peter Nussbaum

-----  
Name: Peter Nussbaum  
Title: Authorized Person

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SIGMA CAPITAL ASSOCIATES, LLC

By: /s/ Peter Nussbaum

-----  
Name: Peter Nussbaum  
Title: Authorized Person

STEVEN A. COHEN

By: /s/ Peter Nussbaum

-----  
Name: Peter Nussbaum  
Title: Authorized Person

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