

| OMB APPROVAL                                 |           |
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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

|   |   |  |
|---|---|--|
| 1. Name and Address of Reporting Person*<br><u>Rasmussen Torsten</u><br><br>(Last) (First) (Middle)<br><u>C/O ACADIA PHARMACEUTICALS INC.</u><br><u>3911 SORRENTO VALLEY BOULEVARD</u><br><br>(Street)<br><u>SAN DIEGO CA 92121</u><br><br>(City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol<br><u>ACADIA PHARMACEUTICALS INC [</u><br><u>ACAD ]</u> | 5. Relationship of Reporting Person(s) to Issuer<br>(Check all applicable)<br><br><input checked="" type="checkbox"/> Director 10% Owner<br><br>Officer (give title below) Other (specify below) |
|   | 3. Date of Earliest Transaction (Month/Day/Year)<br><u>03/18/2008</u>                               |  |
|   | 4. If Amendment, Date of Original Filed (Month/Day/Year)  | 6. Individual or Joint/Group Filing (Check Applicable Line)<br><br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br><br>Form filed by More than One Reporting Person    |

**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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|-------|---|--|---|
|                                 |                                      |  | Code                           | V | Amount  | (A) or (D) | Price |   |  |   |
| Common Stock                    | 03/18/2008                           |  | M                              |   | 1,000   | A          | \$1.2 | 1,000   | I  | See footnote <sup>(1)</sup>                           |
| Common Stock                    | 03/18/2008                           |  | M                              |   | 1,000   | A          | \$1.8 | 2,000   | I  | See footnote <sup>(1)</sup>                           |
| Common Stock                    | 03/18/2008                           |  | M                              |   | 1,000   | A          | \$1.8 | 3,000   | I  | See footnote <sup>(1)</sup>                           |
| Common Stock                    | 03/18/2008                           |  | M                              |   | 1,000   | A          | \$4   | 4,000   | I  | See footnote <sup>(1)</sup>                           |

**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 Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |                             |
|--|--|--------------------------------------|--|--------------------------------|---|--|-------|--|-----------------|---|--|--|---|--|-----------------------------|
|  |  |                                      |  | Code                           | V | (A)  | (D)   | Date Exercisable   | Expiration Date |   |  |  |   |  | Title                       |
| Stock option (right to buy)                | \$1.2  | 03/18/2008                           |  | M                              |   |  | 1,000 | (2)  | 04/27/2008      | Common Stock  | 1,000                                      | \$0  | 0   | I  | See footnote <sup>(1)</sup> |
| Stock option (right to buy)                | \$1.8  | 03/18/2008                           |  | M                              |   |  | 1,000 | (2)  | 03/01/2009      | Common Stock  | 1,000                                      | \$0  | 0   | I  | See footnote <sup>(1)</sup> |
| Stock option (right to buy)                | \$1.8  | 03/18/2008                           |  | M                              |   |  | 1,000 | (2)  | 03/06/2010      | Common Stock  | 1,000                                      | \$0  | 0   | I  | See footnote <sup>(1)</sup> |
| Stock option (right to buy)                | \$4  | 03/18/2008                           |  | M                              |   |  | 1,000 | (2)  | 12/04/2010      | common Stock  | 1,000                                      | \$0  | 0   | I  | See footnote <sup>(1)</sup> |

**Explanation of Responses:**

- 1. Shares and options are held by Morgan Management ApS, a Danish corporation in which Mr. Rasmussen has a controlling interest.
- 2. Immediately

/s/ Uli Hacksell, attorney-in-fact 03/20/2008

\*\* Signature of Reporting Person Date

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

\* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

