

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

FORM S-3

**REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

ACADIA PHARMACEUTICALS INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

06-1376651

(I.R.S. Employer Identification No.)

**3911 Sorrento Valley Boulevard
San Diego, California 92121
(858) 558-2871**

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

**Uli Hacksell, Ph.D.
Chief Executive Officer
3911 Sorrento Valley Boulevard
San Diego, California 92121
(858) 558-2871**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies to:

**Glenn F. Baity
General Counsel
ACADIA Pharmaceuticals Inc.
3911 Sorrento Valley Boulevard
San Diego, California 92121
(858) 558-2871**

**D. Bradley Peck
J. Patrick Loofbourrow
Cooley Godward Kronish LLP
4401 Eastgate Mall
San Diego, California 92121-9109
(858) 550-6000**

Approximate date of commencement of proposed sale to the public:

As soon as practicable after the effective date of this Registration Statement.

If the only securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. 333-139217

If this form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

Calculation of Registration Fee

Title of Class of Securities to be Registered	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee (1)
Common Stock, \$0.0001 par value	\$2,493,750	\$76.56

(1) The registration fee has been calculated in accordance with Rule 457(o) under the Securities Act under the Securities Act of 1933.

EXPLANATORY NOTE

This registration statement is being filed to register an additional \$2,493,750 worth of shares of our common stock, \$0.0001 par value per share, pursuant to Rule 462(b) of the Securities Act of 1933, as amended. In accordance with Rule 462(b), this registration statement incorporates by reference the contents of our registration statement on Form S-3 (File No. 333-139217) which was declared effective on December 28, 2006, including all amendments, supplements and exhibits thereto and all information incorporated by reference therein, other than the exhibits included herein.

The required opinions and consents are listed on the Index to Exhibits attached to and filed with this registration statement.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of San Diego, State of California, on April 4, 2007.

ACADIA Pharmaceuticals Inc.

By: /s/ ULI HACKSELL
Uli Hacksell, Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
By: <u>/s/ ULI HACKSELL</u> Uli Hacksell	Chief Executive Officer and Director (Principal Executive Officer)	April 4, 2007
By: <u>/s/ THOMAS H. AASEN</u> Thomas H. Aasen	Vice President, Chief Financial Officer, Treasurer and Secretary (Principal Financial Officer and Principal Accounting Officer)	April 4, 2007
By: <u>/s/ *</u> Leslie Iversen	Chairman of the Board	April 4, 2007
By: <u>/s/ *</u> Gordon Binder	Director	April 4, 2007
By: <u>/s/ *</u> Michael Borer	Director	April 4, 2007
By: <u>/s/ *</u> Mary Ann Gray	Director	April 4, 2007
By: <u>/s/ *</u> Lester Kaplan	Director	April 4, 2007
By: <u>/s/ *</u> Torsten Rasmussen	Director	April 4, 2007
By: <u>/s/ *</u> Alan Walton	Director	April 4, 2007
*By: <u>/s/ ULI HACKSELL</u> Uli Hacksell Attorney-in-fact		

INDEX TO EXHIBITS

<u>Exhibit Number</u>	<u>Description of Document</u>
5.1	Opinion of Cooley Godward Kronish LLP.
23.1	Consent of Independent Registered Public Accounting Firm.
23.2	Consent of Cooley Godward Kronish LLP (included as Exhibit 5.1 to this filing).
24.1	Power of Attorney (incorporated by reference to Exhibit 24.1 to Registration Statement File No. 333-139217).

April 4, 2007

ACADIA Pharmaceuticals Inc.
3911 Sorrento Valley Boulevard
San Diego, CA 92121

Ladies and Gentlemen:

We have acted as counsel to ACADIA Pharmaceuticals Inc., a Delaware corporation (the "Company"), in connection with the filing of a Registration Statement on Form S-3 (the "Registration Statement") pursuant to Rule 462(b) of Regulation C promulgated under the Securities Act of 1933, as amended (the "Securities Act"), relating to an aggregate of \$2,493,750 of shares of common stock, par value \$0.0001 per share ("Common Stock"), of the Company (the "Shares"). The Shares are being registered for offering and sale from time to time pursuant to Rule 415 of the General Rules and Regulations promulgated under the Securities Act (the "Securities Act Rules"). The Registration Statement incorporates by reference the Registration Statement on Form S-3 (No. 333-139217), which was declared effective on December 28, 2006, including the prospectus which forms a part of such Registration Statement (the "Prospectus"), as supplemented from time to time by one or more prospectus supplements (each, a "Prospectus Supplement").

In connection with this opinion, we have examined and relied upon the originals, or copies certified to our satisfaction, of such records, documents, certificates, opinions, memoranda and other instruments as in our judgment are necessary or appropriate to enable us to render the opinion expressed below. As to certain factual matters, we have relied upon certificates of the officers of the Company and have not sought independently to verify such matters.

In rendering this opinion, we have assumed the genuineness and authenticity of all signatures on original documents; the authenticity of all documents submitted to us as originals; the conformity to originals of all documents submitted to us as copies; the accuracy, completeness and authenticity of certificates of public officials; and the due authorization, execution and delivery of all documents where authorization, execution and delivery are prerequisites to the effectiveness of such documents. We have also assumed that, at the time of issuance and sale, a sufficient number of shares of Common Stock is authorized and reserved or available for issuance and that the consideration for the issuance and sale of such shares of Common Stock is not less than the par value of the Common Stock, and that, prior to any offering and sale of the Shares, the Company's board of directors (the "Board"), including any appropriate committee appointed thereby, will duly authorize the price at which the Shares are to be issued and sold.

Our opinion herein is expressed solely with respect to the federal laws of the United States and the Delaware General Corporation Law. We express no opinion as to whether the laws of any jurisdiction are applicable to the subject matter hereof. We are not rendering any opinion as to compliance with any federal or state antifraud law, rule or regulation relating to securities, or to the sale or issuance thereof.

On the basis of the foregoing and in reliance thereon, and subject to the qualifications herein stated, we are of the opinion that, with respect to any offering of the Shares, (i) when the Registration Statement has become effective; (ii) when the Prospectus and any Prospectus Supplement(s) required by applicable laws have been delivered as required by such laws; (iii) if the Shares are to be sold pursuant to a purchase, underwriting or similar agreement, such agreement has been duly authorized, executed and delivered by the Company and the other parties thereto and has become a valid and binding agreement of the Company; (iv) when the Board, including any appropriate committee appointed thereby, and appropriate officers of the Company have taken all necessary corporate action to approve the issuance and terms of the Shares and related matters; and (v) if the issuance and sale of the Shares do not violate any applicable law or the operative certificate of incorporation or bylaws of the Company or result in a default under or breach of any agreement or instrument binding upon the Company and comply with any requirement or restriction imposed by any court or governmental body having jurisdiction over the

Company, then the Shares, when issued and sold in accordance with a duly authorized, executed and delivered purchase, underwriting or similar agreement, will be duly authorized, validly issued, fully paid and nonassessable.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement and to the reference to our firm under the caption "Legal Matters" in the Prospectus included in the Registration Statement.

Very truly yours,

COOLEY GODWARD KRONISH LLP

By: _____ /s/ D. BRADLEY PECK
D. Bradley Peck

Consent of Independent Registered Public Accounting Firm

We hereby consent to the incorporation by reference in this Registration Statement on Form S-3 of our report dated March 7, 2007 relating to the financial statements, management's assessment of the effectiveness of internal control over financial reporting and the effectiveness of internal control over financial reporting, which appears in ACADIA Pharmaceuticals Inc.'s Annual Report on Form 10-K for the year ended December 31, 2006. We also consent to the reference to us under the headings "Experts" in such Registration Statement.

/S/ PRICEWATERHOUSECOOPERS LLP

PricewaterhouseCoopers LLP
San Diego, California
April 4, 2007