

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

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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* <b>BAKER BROS. ADVISORS LP</b>  (Last) (First) (Middle) <b>860 WASHINGTON STREET</b> <b>3RD FLOOR</b>  (Street) <b>NEW YORK NY 10014</b>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <b>ACADIA PHARMACEUTICALS INC [ ACAD ]</b>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <b>09/20/2019</b>	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

**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								102,876 <sup>(1)</sup>	D	
Common Stock								102,876 <sup>(2)</sup>	D	
Common Stock	09/20/2019		P		68,475	A	\$40	3,383,621	I	See Footnotes <sup>(3)(4)(6)(7)</sup>
Common Stock	09/20/2019		P		1,494,025	A	\$40	37,470,965	I	See Footnotes <sup>(3)(5)(6)(7)</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	Amount or Number of Shares				
Common Stock Warrant (right to buy)	\$0.01							06/07/2013	(8)	Common Stock	1,569		1,569	D <sup>(9)</sup>	
Common Stock Warrant (right to buy)	\$0.01							06/07/2013	(8)	Common Stock	1,569		1,569	D <sup>(10)</sup>	
Common Stock Warrant (right to buy)	\$0.01							06/07/2013	(8)	Common Stock	42,131		42,131	I	See Footnotes <sup>(6)(7)(11)</sup>
Common Stock Warrant (right to buy)	\$0.01							06/07/2013	(8)	Common Stock	447,138		447,138	I	See Footnotes <sup>(6)(7)(12)</sup>

1. Name and Address of Reporting Person \*

[BAKER BROS. ADVISORS LP](#)

(Last) (First) (Middle)  
860 WASHINGTON STREET  
3RD FLOOR

(Street)  
NEW YORK NY 10014

(City) (State) (Zip)

1. Name and Address of Reporting Person \*

[667, L.P.](#)

(Last) (First) (Middle)  
860 WASHINGTON STREET, 3RD FLOOR

(Street)  
NEW YORK NY 10014

(City) (State) (Zip)

1. Name and Address of Reporting Person \*

[Baker Bros. Advisors \(GP\) LLC](#)

(Last) (First) (Middle)  
860 WASHINGTON STREET  
3RD FLOOR

(Street)  
NEW YORK NY 10014

(City) (State) (Zip)

1. Name and Address of Reporting Person \*

[Baker Brothers Life Sciences LP](#)

(Last) (First) (Middle)  
860 WASHINGTON STREET  
3RD FLOOR

(Street)  
NEW YORK NY 10014

(City) (State) (Zip)

1. Name and Address of Reporting Person \*

[BAKER FELIX](#)

(Last) (First) (Middle)  
860 WASHINGTON STREET  
3RD FLOOR

(Street)  
NEW YORK NY 10014

(City) (State) (Zip)

## 1. Name and Address of Reporting Person\*

**BAKER JULIAN**

(Last) (First) (Middle)

**860 WASHINGTON STREET, 3RD FLOOR**

(Street)

**NEW YORK NY 10014**

(City) (State) (Zip)

**Explanation of Responses:**

1. Common stock ("Common Stock") of ACADIA Pharmaceuticals Inc. (the "Issuer") held directly by Felix J. Baker received from in-kind pro rata distributions without consideration.
2. Common Stock held directly by Julian C. Baker received from the in-kind pro rata distributions without consideration.
3. 667, L.P. ("667") and Baker Brothers Life Sciences, L.P. ("Life Sciences", and together with 667, the "Funds") purchased 68,475 and 1,494,025 shares of Common Stock, respectively, for \$40.00 per share in an underwritten public offering (the "Offering") that closed on September 20, 2019.
4. After giving effect to the transaction reported herein and as a result of their ownership interest in (i) Baker Biotech Capital, L.P. and (ii) 667, Julian C. Baker and Felix J. Baker each may be deemed to have an indirect pecuniary interest in Common Stock reported in column 5 of Table I directly held by 667, a limited partnership of which the sole general partner is Baker Biotech Capital, L.P., a limited partnership of which the sole general partner is Baker Biotech Capital (GP), LLC, due to their interest in 667 and Baker Biotech Capital, L.P.'s right to receive an allocation of a portion of the profits from 667.
5. After giving effect to the transaction reported herein and as a result of their ownership interest in (i) Baker Brothers Life Sciences Capital, L.P. and (ii) Life Sciences, Julian C. Baker and Felix J. Baker each may be deemed to have an indirect pecuniary interest in Common Stock of the Issuer reported in column 5 of Table I directly held by Life Sciences, a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital, L.P., a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital (GP), LLC, due to their interest in Life Sciences and Baker Brothers Life Sciences Capital, L.P.'s right to receive an allocation of a portion of the profits from Life Sciences.
6. Baker Bros. Advisors LP (the "Adviser") serves as the investment adviser to the Funds. In connection with the services provided by the Adviser, the Adviser receives an asset-based management fee that does not confer any pecuniary interest in the securities held by the Funds. Baker Bros. Advisors (GP) LLC (the "Adviser GP") is the Adviser's sole general partner. Julian C. Baker and Felix J. Baker are managing members of the Adviser GP. The Adviser has complete and unlimited discretion and authority with respect to the investment and voting power of the securities held by the Funds. The general partners of the Funds relinquished to the Adviser all discretion and authority with respect to the investment and voting power of the securities held by the Funds.
7. Julian C. Baker, Felix J. Baker, the Adviser GP and the Adviser disclaim beneficial ownership of the securities held directly by the Funds except to the extent of their pecuniary interest therein, and this report shall not be deemed an admission that any of Julian C. Baker, Felix J. Baker, the Adviser GP or the Adviser is a beneficial owner of such securities for purposes of Section 16 or any other purpose.
8. Represents warrants to purchase Common Stock at an exercise price of \$0.01 per share with no expiration date ("Prefunded Warrants").
9. Reflects Prefunded Warrants held directly by Julian C. Baker received in an in-kind pro rata distribution without consideration.
10. Reflects Prefunded Warrants held directly by Felix J. Baker received in an in-kind pro rata distribution without consideration.
11. As a result of their ownership interest in (i) Baker Biotech Capital, L.P. and (ii) 667, Julian C. Baker and Felix J. Baker each may be deemed to have an indirect pecuniary interest in Prefunded Warrants reported in column 9 of Table II directly held by 667, a limited partnership of which the sole general partner is Baker Biotech Capital, L.P., a limited partnership of which the sole general partner is Baker Biotech Capital (GP), LLC, due to their interest in 667 and Baker Biotech Capital, L.P.'s right to receive an allocation of a portion of the profits from 667.
12. As a result of their ownership interest in (i) Baker Brothers Life Sciences Capital, L.P. and (ii) Life Sciences, Julian C. Baker and Felix J. Baker each may be deemed to have an indirect pecuniary interest in Prefunded Warrants reported in column 9 of Table II directly held by Life Sciences, a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital, L.P., a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital (GP), LLC, due to their interest in Life Sciences and Baker Brothers Life Sciences Capital, L.P.'s right to receive an allocation of a portion of the profits from Life Sciences.

**Remarks:**

Julian C. Baker, a managing member of Baker Bros. Advisors (GP) LLC, the sole general partner of Baker Bros. Advisors LP, and Dr. Stephen R. Biggar, a full-time employee of Baker Bros. Advisors LP are directors of ACADIA Pharmaceuticals Inc. (the "Issuer"). For purposes of Section 16 of the Securities Exchange Act of 1934, as amended, the reporting persons are deemed directors by deputization by virtue of their representation on the board of directors of the Issuer.

By: Baker Bros. Advisors LP,  
Name: Scott L. Lessing, Title: 09/20/2019  
President /s/ Scott L. Lessing  
Baker Bros. Advisors LP,  
Mgmt. Co. and Inv. Adviser to  
667, L.P., pursuant to  
authority granted by Baker 09/20/2019  
Biotech Capital, L.P., GP to  
667, L.P. Name: Scott L.  
Lessing, Title: President /s/  
Scott L. Lessing  
By: Baker Bros. Advisors (GP)  
LLC, Name: Scott L. Lessing, 09/20/2019  
Title: President /s/ Scott L.  
Lessing  
Baker Bros. Advisors LP,  
Mgmt. Co. and Inv. Adviser to  
BAKER BROTHERS LIFE  
SCIENCES, L.P., pursuant to  
authority granted by Baker 09/20/2019  
Brothers Life Sciences  
Capital, L.P., GP to Baker  
Brothers Life Sciences, L.P.,  
Name: Scott L. Lessing, Title:  
President /s/  
/s/ Felix J. Baker 09/20/2019  
/s/ Julian C. Baker 09/20/2019  
 \*\* 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.**