

# FORM 3

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

OMB APPROVAL	
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## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

1. Name and Address of Reporting Person * Arch Venture Fund VII LP  (Last) (First) (Middle) 8755 WEST HIGGINS ROAD, SUITE 1025  (Street) CHICAGO, IL 60631  (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 06/29/2016	3. Issuer Name <b>and</b> Ticker or Trading Symbol Syros Pharmaceuticals, Inc. [SYRS]	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)	5. If Amendment, Date Original Filed(Month/Day/Year)
		6. Individual or Joint/Group Filing(Check Applicable Line) <input type="checkbox"/> Form filed by One Reporting Person <input checked="" type="checkbox"/> Form filed by More than One Reporting Person	

### Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	213,333	D (5)	

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

SEC 1473 (7-02)

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### Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Series A-1 Preferred Stock	(1)	(1)	Common Stock	266,666	\$ (1)	D (5)	
Series A-2 Preferred Stock	(2)	(2)	Common Stock	1,333,333	\$ (2)	D (5)	
Series A-3 Preferred Stock	(3)	(3)	Common Stock	2,000,000	\$ (3)	D (5)	
Series B Preferred Stock	(4)	(4)	Common Stock	423,805	\$ (4)	D (5)	

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Arch Venture Fund VII LP 8755 WEST HIGGINS ROAD, SUITE 1025		X		

CHICAGO, IL 60631 ARCH Venture Partners VII, L.P. 8755 WEST HIGGINS ROAD, SUITE 1025 CHICAGO, IL 60631		X		
ARCH Venture Partners VII, LLC 8755 WEST HIGGINS ROAD, SUITE 1025 CHICAGO, IL 60631		X		
CRANDELL KEITH 8755 WEST HIGGINS ROAD, SUITE 1025 CHICAGO, IL 60631		X		
BYBEE CLINTON 8755 WEST HIGGINS ROAD, SUITE 1025 CHICAGO, IL 60631		X		

## Signatures

ARCH Venture Fund VII, L.P. By: ARCH Venture Partners VII, L.P. By: /s/Mark McDonnell, as Attorney-in-Fact for Keith Crandell, the Mgng Dir of ARCH VII LLC, the GP of ARCH Partners VII, the GP of ARCH Fund VII Name: Mark McDonnell Title: Attorney-in fact		06/29/2016
**Signature of Reporting Person		Date
ARCH Venture Partners VII, L.P. By: ARCH Venture Partners VII, LLC By: /s/ Mark McDonnell as Attorney-in-Fact for Keith Crandell, the Managing Director of ARCH VII LLC, the general partner of ARCH Partners VII Name: Mark McDonnell Title: Attorney-in fact		06/29/2016
**Signature of Reporting Person		Date
ARCH Venture Partners VII, LLC By: /s/ Mark McDonnell as Attorney-in-Fact for Keith Crandell, the Managing Director of ARCH VII LLC Name: Mark McDonnell Title: Attorney-in fact		06/29/2016
**Signature of Reporting Person		Date
/s/ Mark McDonnell, as Attorney-in-Fact for Keith Crandell		06/29/2016
**Signature of Reporting Person		Date
/s/ Mark McDonnell, as Attorney-in-Fact for Clinton Bybee		06/29/2016
**Signature of Reporting Person		Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, *see* Instruction 5(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) The Series A-1 Preferred Stock is convertible into Common Stock on a 3.75-for-one basis into the number of shares shown in column 3 at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering without payment of further consideration. The shares have no expiration date.

(2) The Series A-2 Preferred Stock is convertible into Common Stock on a 3.75-for-one basis into the number of shares shown in column 3 at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering without payment of further consideration. The shares have no expiration date.

(3) The Series A-3 Preferred Stock is convertible into Common Stock on a 3.75-for-one basis into the number of shares shown in column 3 at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering without payment of further consideration. The shares have no expiration date.

(4) The Series B Preferred Stock is convertible into Common Stock on a 3.75-for-one basis into the number of shares shown in column 3 at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering without payment of further consideration. The shares have no expiration date.

(5) These shares are owned directly by ARCH Venture Fund VII, L.P. ("ARCH Fund VII"). The sole general partner of ARCH Fund VII is ARCH Venture Partners VII, L.P. ("ARCH Partners VII"). The sole general partner of ARCH Partners VII is ARCH Venture Partners VII, LLC ("ARCH VII LLC"). The Managing Directors of ARCH VII LLC, Robert T. Nelsen, Keith Crandell and Clinton Bybee, are deemed to have voting and dispositive power over the shares and may be deemed to beneficially own certain shares held by ARCH Fund VII. Each Reporting Person disclaims beneficial ownership of these securities, except to the extent of his pecuniary interest

therein, and this report shall not be deemed an admission that such Reporting Persons are the beneficial owners of such securities for Section 16 or any other purpose.

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

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