

FORM 3

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

OMB APPROVAL	
OMB Number:	3235-0104
Estimated average burden hours per response...	0.5

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 * Redmile Group, LLC (Last) (First) (Middle) ONE LETTERMAN DRIVE, BUILDING D,, SUITE D3-300 (Street) SAN FRANCISCO, CA 94129 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 06/29/2016	3. Issuer Name and 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)

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 B Preferred Stock	(1)	(1)	Common Stock	84,760	\$ (1)	D (2) (3)	
Series B Preferred Stock	(1)	(1)	Common Stock	47,486	\$ (1)	D (2) (4)	
Series B Preferred Stock	(1)	(1)	Common Stock	262,069	\$ (1)	D (2) (5)	
Series B Preferred Stock	(1)	(1)	Common Stock	31,447	\$ (1)	D (2) (6)	
Series B Preferred Stock	(1)	(1)	Common Stock	40,420	\$ (1)	D (2) (7)	

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Redmile Group, LLC ONE LETTERMAN DRIVE, BUILDING D,				

SUITE D3-300 SAN FRANCISCO, CA 94129		X		
Green Jeremy ONE LETTERMAN DRIVE, BUILDING D, SUITE D3-300 SAN FRANCISCO, CA 94129		X		

Signatures

Redmile Group, LLC By: /s/ Jeremy Green Name: Jeremy Green Title: Managing Member		06/29/2016
<small>**Signature of Reporting Person</small>		Date
By:/s/ Jeremy Green Name: Jeremy Green		06/29/2016
<small>**Signature of Reporting Person</small>		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).

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 (1) 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) These securities are directly owned by certain private investment vehicles managed by Redmile Group, LLC ("Redmile") and may be deemed beneficially owned by Redmile as investment manager of such private investment vehicles. The reported securities may also be deemed beneficially owned by Jeremy Green as the principal of Redmile. The Reporting Persons disclaim beneficial ownership of the reported securities except to the extent of their pecuniary interest therein, and this report shall not be deemed an admission that such Reporting Persons are the beneficial owners of the securities for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, or for any other purpose.

(3) These shares are owned directly by Redmile Biopharma Investments I, L.P.

(4) These shares are owned directly by Redmile Capital Fund LP.

(5) These shares are owned directly by Redmile Capital Offshore Fund II, Ltd.

(6) These shares are owned directly by Redmile Capital Offshore Fund, Ltd.

(7) These shares are owned directly by Redmile Special Opportunities Fund, Ltd.

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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