

FORM 4

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

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 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		2. Issuer Name and Ticker or Trading Symbol Syros Pharmaceuticals, Inc. [SYRS]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) ____ Director ____ Officer (give title below) <input checked="" type="checkbox"/> 10% Owner ____ Other (specify below)	
(Last) ONE LETTERMAN DRIVE, BUILDING D., SUITE D3-300	(First) D., SUITE D3-300	(Middle) D., SUITE D3-300	3. Date of Earliest Transaction (Month/Day/Year) 07/06/2016		
(Street) SAN FRANCISCO, CA 94129			4. If Amendment, Date Original Filed (Month/Day/Year)		6. Individual or Joint/Group Filing (Check Applicable Line) ____ Form filed by One Reporting Person <input checked="" type="checkbox"/> Form filed by More than One Reporting Person
(City)	(State)	(Zip)	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	07/06/2016		C		84,760	A	(1)	84,760	D	(2) (3)
Common Stock	07/06/2016		C		47,486	A	(1)	47,486	D	(2) (4)
Common Stock	07/06/2016		C		262,069	A	(1)	262,069	D	(2) (5)
Common Stock	07/06/2016		C		31,447	A	(1)	31,447	D	(2) (6)
Common Stock	07/06/2016		C		40,420	A	(1)	40,420	D	(2) (7)
Common Stock	07/06/2016		P		144,383	A	\$ 12.5	191,869	D	(2) (4)
Common Stock	07/06/2016		P		104,670	A	\$ 12.5	366,739	D	(2) (5)
Common Stock	07/06/2016		P		174,320	A	\$ 12.5	205,767	D	(2) (6)
Common Stock	07/06/2016		P		9,373	A	\$ 12.5	49,793	D	(2) (7)

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

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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 Underlying Securities (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 of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Series B Preferred Stock	(1)	07/06/2016		C		317,853	(1)	(1)	Common Stock	84,760	\$ 0	0	D	(2) (3)
Series B Preferred Stock	(1)	07/06/2016		C		178,074	(1)	(1)	Common Stock	47,486	\$ 0	0	D	(2) (4)
Series B Preferred Stock	(1)	07/06/2016		C		982,762	(1)	(1)	Common Stock	262,069	\$ 0	0	D	(2) (5)
Series B Preferred Stock	(1)	07/06/2016		C		117,931	(1)	(1)	Common Stock	31,447	\$ 0	0	D	(2) (6)
Series B Preferred Stock	(1)	07/06/2016		C		151,576	(1)	(1)	Common Stock	40,420	\$ 0	0	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		07/06/2016
<small>**Signature of Reporting Person</small>		Date
By: /s/ Jeremy Green Name: Jeremy Green		07/06/2016
<small>**Signature of Reporting Person</small>		Date

Explanation of Responses:

* 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).

The Series B Preferred Stock converted into Common Stock on a 3.75-for-one basis upon the closing of the Issuer's initial public offering without payment of consideration. The Series B Preferred Stock was convertible at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering. The shares had no expiration date.

- (1) 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.
- (2) These shares are owned directly by Redmile Biopharma Investments I, L.P.
- (3) These shares are owned directly by Redmile Capital Fund LP.
- (4) These shares are owned directly by Redmile Capital Offshore Fund II, Ltd.
- (5) These shares are owned directly by Redmile Capital Offshore Fund, Ltd.
- (6) 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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