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

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934 (Amendment No. 1)

	ATYR PHARMA, INC.
	(Name of Issuer)
	Common Stock, \$0.001 par value
	(Title of Class of Securities)
	002120103
	(CUSIP Number)
	December 31, 2018
	(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate	e the rule pursuant to which this Schedule is filed:
þ Rule 13d-1(b)	
□ Rule 13d-1(c)	
□ Rule 13d-1(d)	
	all be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for a information which would alter the disclosures provided in a prior cover page.
	nder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).
1954 (Act.) of otherwise subject to the	ne madifides of that section of the Act but shall be subject to all other provisions of the Act (nowever, see the Notes).

CUSIP	Nο	0021	201	U.

CUSIFIN	0. 002120103				
1	Name of Report	TING PERS	SON		
	Redmile Grou				
2	Снеск тне Аррг	OPRIATE]	Box if a Member of a Group (See Instructions)		
	(A) 🗆				
	(A) □ (B) □				
3	SEC Use Only				
4	CITIZENSHIP OR F	PLACE OF	Organization		
	GITIZENSIIII OK I	LACE OF	ORGANIZATION		
	Delaware				
		5	Sole Voting Power		
NU	MBER OF		0		
_	SHARES		Shared Voting Power		
	BENEFICIALLY OWNED BY		707,547 (1)		
EACH		7	Sole Dispositive Power		
REPORTING		'	Sole Dispositive Fower		
PER	SON WITH		0		
		8	Shared Dispositive Power		
			707,547 (1)		
9	Aggregate Amo	DUNT BEN	ieficially Owned by Each Reporting Person		
	707,547 ⁽¹⁾				
10	Curcy is the Ac	CDECATE	Amount in Row (9) Excludes Certain Shares (See Instructions)		
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (3) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)				
11	PERCENT OF CLA	SS REPRE	SENTED BY AMOUNT IN ROW (9)		
	2.3% ⁽²⁾				
12		ING PERSO	on (See Instructions)		
	IA, 00				

⁽¹⁾ Redmile Group, LLC's beneficial ownership of the Issuer's common stock ("Common Stock") is comprised of 707,547 shares of Common Stock issuable upon exercise of warrants owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC, which shares of Common Stock may be deemed beneficially owned by Redmile Group, LLC as investment manager of such private investment vehicles and/or separately managed accounts. The reported securities may also be deemed beneficially owned by Jeremy C. Green as the principal of Redmile Group, LLC. Redmile Group, LLC and Mr. Green each disclaim beneficial ownership of these shares, except to the extent of its or his pecuniary interest in such shares, if any.

(2) Percentage based on: (a) 30,023,543 shares of Common Stock outstanding as of November 8, 2018, as reported by the Issuer in its Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 14, 2018 (the "Form 10-Q"), and (b) 707,547 shares of Common Stock issuable upon exercise of warrants owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC.

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COSIF	0. 002120103		
1	NAME OF REPORT	ING PERSO	ON
	Jeremy C. Gre	en	
2	CHECK THE APPR	OPRIATE B	Box if a Member of a Group (See Instructions)
	(A) 🗆		
	(A) □ (B) □		
3	SEC Use Only		
4	CITIZENSHIP OR P	LACE OF (JRGANIZATION
	United Kingdo	m	
		5	Sole Voting Power
NII	MBER OF		0
	SHARES	6	SHARED VOTING POWER
	BENEFICIALLY		
	OWNED BY		707,547 ⁽³⁾
	EACH PORTING	7	Sole Dispositive Power
	SON WITH		0
		8	Shared Dispositive Power
			(2)
•			707,547 ⁽³⁾ EFICIALLY OWNED BY EACH REPORTING PERSON
9	AGGREGATE AMO	OUNT BENE	EFICIALLY OWNED BY EACH REPORTING PERSON
	707,547 ⁽³⁾		
10	CHECK IF THE AC	GREGATE .	Amount in Row (9) Excludes Certain Shares (See Instructions)
11	DEDCENT OF CLAS	ec Rennes	SENTED BY AMOUNT IN ROW (9)
	TERCENT OF CLA	33 KEFKES	ENTED BY TAMOUNT IN NOW (3)
	2.3% ⁽⁴⁾		
12	Type of Reporti	NG PERSO	on (See Instructions)
	IN, HC		

⁽³⁾ Jeremy C. Green's beneficial ownership of Common Stock is comprised of 707,547 shares of Common Stock issuable upon exercise of warrants owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC, which shares of Common Stock may be deemed beneficially owned by Redmile Group, LLC as investment manager of such private investment vehicles and/or separately managed accounts. The reported securities may also be deemed beneficially owned by Jeremy C. Green as the principal of Redmile Group, LLC. Redmile Group, LLC and Mr. Green each disclaim beneficial ownership of these shares, except to the extent of its or his pecuniary interest in such shares, if any.

⁽⁴⁾Percentage based on: (a) 30,023,543 shares of Common Stock outstanding as of November 8, 2018, as reported by the Issuer in the Form 10-Q, and (b) 707,547 shares of Common Stock issuable upon exercise of warrants owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC.

Item 1.	(a)	Name of Issuer							
	(u)								
		aTyr Pharma, Inc.							
	(b)	Address of Issuer's Principal Executive Offices							
		3545 John Hopkins Court, Suite #250 San Diego, CA 92121							
Item 2.	(a)	Names of Persons Filing							
		Redmile Group, LLC Jeremy C. Green							
	(b)	Address of Principal Business office or, if None, Residence Redmile Group, LLC One Letterman Drive							
		Redmile Group, LLC One Letterman Drive Building D, Suite D3-300 The Presidio of San Francisco San Francisco, California 94129							
		Jeremy C. Green c/o Redmile Group, LLC One Letterman Drive Building D, Suite D3-300 The Presidio of San Francisco San Francisco, California 94129							
	(c)	Citizenship							
		Redmile Group, LLC: Delaware Jeremy C. Green: United Kingdom							
	(d)	Title of Class of Securities							
		Common Stock, \$0.001 par value							
	(e)	CUSIP Number							
		002120103							
Item 3.		If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:							
		(a) \square Broker or dealer registered under section 15 of the Act (15 U.S.C. 780);							
		(b) \square Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);							
		(c) \square Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);							

	(d)		Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8);
	(e)	X	An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
	(f)		An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
	(g)		A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
	(h)		A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
	(i)		A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
	(j)		A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J);
	(k)		Group, in accordance with \S 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with \S 240.13d-1(b)(1)(ii) (J), please specify the type of institution:
Item 4.	Owr	nershi	p.
	(a)	Amo	ount beneficially owned:
			mile Group, LLC – 707,547* my C. Green – 707,547*
	(b)	Perc	ent of class:
			mile Group, LLC – 2.3%** my C. Green – 2.3%**
	(c)	Num	aber of shares as to which Redmile Group, LLC has:
		(i)	Sole power to vote or to direct the vote:
			0
		(ii)	Shared power to vote or to direct the vote:
			707,547*
		(iii)	Sole power to dispose or to direct the disposition of:
			0
		(iv)	Shared power to dispose or to direct the disposition of:
			707,547*
	Num	iber of	shares as to which Jeremy C. Green has:
		(i)	Sole power to vote or to direct the vote:
			0

(ii) Shared power to vote or to direct the vote:

707,547*

(iii) Sole power to dispose or to direct the disposition of:

0

(iv) Shared power to dispose or to direct the disposition of:

707,547*

- * Redmile Group, LLC's and Jeremy C. Green's beneficial ownership of the Issuer's Common Stock is comprised of 707,547 shares of Common Stock issuable upon exercise of warrants owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC, which shares of Common Stock may be deemed beneficially owned by Redmile Group, LLC as investment manager of such private investment vehicles and/or separately managed accounts. The reported securities may also be deemed beneficially owned by Jeremy C. Green as the principal of Redmile Group, LLC. Redmile Group, LLC and Mr. Green each disclaim beneficial ownership of these shares, except to the extent of its or his pecuniary interest in such shares, if any.
- ** Percentage based on: (a) 30,023,543 shares of Common Stock outstanding as of November 8, 2018, as reported by the Issuer in the Form 10-Q, and (b) 707,547 shares of Common Stock issuable upon exercise of warrants owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC.

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following 🗵

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

N/A.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

See Exhibit A attached hereto.

Item 8. Identification and Classification of Members of the Group.

N/A

Item 9. Notice of Dissolution of Group.

N/A

Item 10. Certifications.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect, other than activities solely in connection with a nomination under § 240.14a-11.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 14, 2019

Redmile Group, LLC

By: /s/ Jeremy C. Green

Name: Jeremy C. Green Title: Managing Member

/s/ Jeremy C. Green

Jeremy C. Green

Exhibit A

Joint Filing Agreement

In accordance with Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), the undersigned hereby agree to the joint filing on behalf of each of them of a Statement on Schedule 13G (including any and all amendments thereto, the "Schedule 13G") relating to the Common Stock, \$0.001 par value per share, of aTyr Pharma, Inc., which may be deemed necessary pursuant to Regulation 13D or 13G promulgated under the Exchange Act.

The undersigned further agree that each party hereto is responsible for the timely filing of the Schedule 13G, and for the accuracy and completeness of the information concerning such party contained therein; provided, however, that no party is responsible for the accuracy or completeness of the information concerning any other party, unless such party knows or has a reason to believe that such information is inaccurate.

It is understood and agreed that a copy of this Joint Filing Agreement shall be attached as an exhibit to the Schedule 13G, filed on behalf of each of the parties hereto.

IN WITNESS WHEREOF, each of the undersigned has executed this Joint Filing Agreement as of the 14th day of February, 2019.

REDMILE GROUP, LLC

/s/ Jeremy C. Green

Name: Jeremy C. Green Title: Managing Member

/s/ Jeremy C. Green

JEREMY C. GREEN