## SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

#### **SCHEDULE 13G**

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

# ATyr Pharma, Inc. (Name of Issuer)

## Common Stock, \$0.001 par value per share

(Title of Class of Securities)

#### 002120103

(CUSIP Number)

#### **December 31, 2017**

(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
Rule 13d-1(b)
Rule 13d-1(c)
⊠ Rule 13d-1(d)
*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.
The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act o 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes)

1				
	Alta Par	tners VIII	l, L.P.	
2	CHECK	(a) 🗆		
_			(b) ⊠	
3	SEC US	E ONLY		
4	CITIZE	NSHID O	R PLACE OF ORGANIZATION	
7	Delawai		R LACE OF ORGANIZATION	
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SHAF			CIVADED MOTING DOMES	
BENEFIC OWNE		6	SHARED VOTING POWER	-0-
EAC		7	SOLE DISPOSITIVE POWER	1,777,875 (a)
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PERS		8	SHARED DISPOSITIVE POWER	-0-
WIT				
9		_	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,777,87	'5 (a)		
10	CHECK	BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES *	
11			LASS REPRESENTED BY AMOUNT IN ROW (9)	
	6.0% (b	)		
12	TYPE C	F REPOR	RTING PERSON	
	PN	- 1.21 01		

- (a) Alta Partners VIII, L.P. ("AP VIII") has sole voting and dispositive control over 1,777,875 shares of common stock ("Common Stock") of ATyr Pharma, Inc. (the "Issuer"), except that Alta Partners Management VIII, LLC ("APM VIII"), the general partner of AP VIII, and Farah Champsi ("Champsi"), Daniel Janney ("Janney") and Guy Nohra ("Nohra"), managing directors of AP VIII, may be deemed to share dispositive and voting power over such stock. Additional information about AP VIII is set forth in Attachment A hereto.
- (b) The percentage set forth in row (11) is based on the 29,758,347 outstanding shares of Common Stock as of November 7, 2017 as reported in the Issuer's 10-Q for the quarter ended September 30, 2017 as filed with the Securities and Exchange Commission on November 14, 2017. The information with respect to the shares of Common Stock beneficially owned by the Reporting Person is provided as of December 31, 2017.

2	CHECK	(a) □ (b) ⊠		
3	SEC US	ONLY		
4	CITIZE	SHIP OR PLACE OF	ORGANIZATION	
	Delawa			
	BER OF ARES	5 SOLE	VOTING POWER	-0-
BENEFICIALLY OWNED BY EACH REPORTING		6 SHAR	ED VOTING POWER	1,777,875 (c)
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9	AGGRE 1,777,87		EFICIALLY OWNED BY EACH REPORTING PERSON	1
10	CHECK	3OX IF THE AGGRE	GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN S	HARES *
11	PERCE. 6.0% (b	Γ OF CLASS REPRE	SENTED BY AMOUNT IN ROW (9)	
12	TYPE O	REPORTING PERSO	DN	

1	NAMES OF REPORTING PERSON Farah Champsi						
2	CHECK THE AF	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) □ (b) ⊠				
3	SEC USE ONLY						
4	CITIZENSHIP O U.S.A.	R PLACE OF ORGANIZATION					
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9	AGGREGATE A 1,777,875 (d)	MOUNT BENEFICIALLY OWNED BY EACH REPORTIN	G PERSON				
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES C	ERTAIN SHARES *				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 6.0% (b)						
12	TYPE OF REPO	RTING PERSON					

(d) Champsi is a managing director of APM VIII and may be deemed to share voting and dispositive control over the 1,777,875 shares of Common Stock held by AP VIII.

	NAMES OF REPORTING PERSON						
]	Daniel Janney						
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □							
2	CHECK THE AL	I KOI KIATE BOX II' A WEWIDER OF A GROOT	(a) □ (b) ⊠				
			(8) —				
3	SEC USE ONLY						
		R PLACE OF ORGANIZATION					
	U.S.A.						
NUMBER O	)F 5	SOLE VOTING POWER	-0-				
SHARES	1 5	SOLE VOINGTOWER	-0-				
BENEFICIAL	LY 6	SHARED VOTING POWER	1,777,875 (e)				
OWNED BY	Y		• •				
EACH	7	SOLE DISPOSITIVE POWER	-0-				
REPORTING PERSON							
WITH	8	SHARED DISPOSITIVE POWER	1,777,875 (e)				
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10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES (	CERTAIN SHARES *				
		LASS REPRESENTED BY AMOUNT IN ROW (9)					
(	6.0% (b)						
12	TYPE OF REPOI	RTING PERSON					
	IN	ATTIO I EROOM					

<sup>(</sup>e) Janney is a managing director of APM VIII and may be deemed to share voting and dispositive control over the 1,777,875 shares of Common Stock held by AP VIII.

1	NAMES OF REPORTING PERSON Guy Nohra						
2	CHECK THE AF	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) □ (b) ⊠				
3	SEC USE ONLY						
4	CITIZENSHIP O U.S.A.	R PLACE OF ORGANIZATION					
NUMBEI SHAR		SOLE VOTING POWER	-0-				
BENEFICE	IALLY 6	SHARED VOTING POWER	1,777,875 (f)				
EACI REPORT	,	SOLE DISPOSITIVE POWER	-0-				
PERSO WITI	0	SHARED DISPOSITIVE POWER	1,777,875 (f)				
9	AGGREGATE A 1,777,875 (f)	MOUNT BENEFICIALLY OWNED BY EACH REPORTIN	IG PERSON				
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES C	CERTAIN SHARES *				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 6.0% (b)						
12	TYPE OF REPO	RTING PERSON					

<sup>(</sup>f) Nohra is a managing director of APM VIII and may be deemed to share voting and dispositive control over the 1,777,875 shares of Common Stock held by AP VIII.

Item 1.

(a) Name of Issuer:

ATyr Pharma, Inc. ("Issuer")

(b) Address of Issuer's Principal Executive Offices:

3545 Johns Hopkins Court, Suite 250

San Diego, CA 92121

Item 2.

(a) Name of Person Filing:

Alta Partners VIII, L.P. ("APVIII")

Alta Partners Management VIII, LLC ("APMVIII")

Guy Nohra ("GN") Daniel Janney ("DJ") Farah Champsi ("FC")

(b) Address of Principal Business Office:

One Embarcadero Center, Suite 3700

San Francisco, CA 94111

(c) Citizenship/Place of Organization:

**Entities:** 

APVIII - Delaware APMVIII - Delaware

Individuals:

DJ - United States
GN - United States
FC - United States

(d) Title of Class of Securities:

Common Stock, \$0.001 par value per share

(e) CUSIP Number:

002120103

Item 3. Not applicable.

## Item 4. Ownership.

The following beneficial ownership information is provided as of December 31, 2015.

Please see Attachment A							
			Shared	Sole	Shared		
	<b>Shares Held</b>	Sole Voting	Voting	Dispositive	Dispositive	<b>Beneficial</b>	Percentage
Fund Entities	Directly	Power	Power	Power	Power	Ownership	of Class
APVIII	1,777,875	0	1,777,875	0	1,777,875	1,777,875	6.0%
APMVIII	0	0	1,777,875	0	1,777,875	1,777,875	6.0%
DJ	0	0	1,777,875	0	1,777,875	1,777,875	6.0%
GN	0	0	1,777,875	0	1,777,875	1,777,875	6.0%
FC	0	0	1,777,875	0	1,777,875	1,777,875	6.0%

## 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  $\Box$ 

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

Not applicable.

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

Not applicable.

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

No reporting person is a member of a group as defined in Section 240.13d-1(b)(1)(ii)(J) of the Act.

#### Item 9. Notice of Dissolution of Group

Not applicable.

## Item 10. Certification

Not applicable.

# **EXHIBITS**

A: Joint Filing Statement

#### **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.

/s/ Guy Nohra

/s/ Farah Champsi

Farah Champsi

**Guy Nohra** 

## EXHIBIT A

#### AGREEMENT OF JOINT FILING

We, the undersigned, hereby express our agreement that the attached Schedule 13G is filed on behalf of us.

Date: February 6, 2018 Alta Partners VIII, L.P. By: Alta Partners Management VIII, LLC By: /s/ Daniel Janney Daniel Janney, Managing Director Alta Partners Management VIII, LLC By: /s/ Daniel Janney Daniel Janney, Managing Director /s/ Daniel Janney **Daniel Janney** /s/ Guy Nohra **Guy Nohra** /s/ Farah Champsi Farah Champsi

#### Attachment A

Alta Partners VIII, L.P. beneficially owns 1,777,875 shares of Common Stock and exercises sole voting and dispositive control over such shares, except to the extent set forth below.

Alta Partners Management VIII, LLC is the general partner of Alta Partners VIII, L.P. and may be deemed to share the right to direct the voting and dispositive control over the shares held by such fund. Alta Partners Management VIII, LLC disclaims beneficial ownership of all such shares, except to the extent of its pecuniary interest therein.

Mr. Daniel Janney is a managing director of Alta Partners Management VIII, LLC and may be deemed to share the right to direct the voting and dispositive control over the shares held by such fund. Mr. Janney disclaims beneficial ownership of all such shares, except to the extent of his pecuniary interest therein.

Mr. Guy Nohra is a managing director of Alta Partners Management VIII, LLC and may be deemed to share the right to direct the voting and dispositive control over the shares held by such fund. Mr. Nohra disclaims beneficial ownership of all such shares, except to the extent of his pecuniary interest therein.

Ms. Farah Champsi is a managing director of Alta Partners Management VIII, LLC and may be deemed to share the right to direct the voting and dispositive control over the shares held by such fund. Ms. Champsi disclaims beneficial ownership of all such shares, except to the extent of her pecuniary interest therein