SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchar	ige Act of 1934
(Amendment No.)*

ATyr Pharma, Inc.

(Name of Issuer)

Common Stock, \$0.001 par value per share

(Title of Class of Securities)

002120103

(CUSIP Number)

December 31, 2015

(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 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 of 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)

^{*}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.

1	NAMES OF REPO Alta Partners VIII,		
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) □□ (b) 区
3	SEC USE ONLY		
4	CITIZENSHIP OR Delaware	PLACE OF ORGANIZATION	
NUMBER O SHARES BENEFICIAL	5 LLY	SOLE VOTING POWER	1,778,064 (a)
OWNED BY EACH REPORTIN	6	SHARED VOTING POWER	-0-
PERSON WITH	7	SOLE DISPOSITIVE POWER	1,778,064 (a)
	8	SHARED DISPOSITIVE POWER	-0-
9	AGGREGATE AM 1,778,064 (a)	IOUNT BENEFICIALLY OWNED BY EACH R	EPORTING PERSON
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXC	LUDES CERTAIN SHARES *
11	PERCENT OF CL. 7.5% (b)	ASS REPRESENTED BY AMOUNT IN ROW (9)
12	TYPE OF REPORT	TING PERSON	

⁽a) Alta Partners VIII, L.P. ("AP VIII") has sole voting and dispositive control over 1,778,064 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 23,648,404 outstanding shares of Common Stock as of November 6, 2015 as reported in the Issuer's 10-Q for the quarter ended September 30, 2015 as filed with the Securities and Exchange Commission on November 10, 2015. The information with respect to the shares of Common Stock beneficially owned by the Reporting Person is provided as of December 31, 2015.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □□ (b) 図 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES 5 SOLE VOTING POWER -0- BENEFICIALLY OWNED BY EACH 6 SHARED VOTING POWER 1,778,064 (c) REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER -0- 8 SHARED DISPOSITIVE POWER 1,778,064 (c) 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,778,064 (c) 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES * 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 7.5% (b)		NAMES OF REPOR Alta Partners Manag		
A CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES 5 SOLE VOTING POWER -0- BENEFICIALLY OWNED BY EACH 6 SHARED VOTING POWER 1,778,064 (c) REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER -0- 8 SHARED DISPOSITIVE POWER 1,778,064 (c) 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,778,064 (c) 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES * 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 7.5% (b)	2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	
NUMBER OF SHARES 5 SOLE VOTING POWER -0-	3	SEC USE ONLY		
SHARES 5 SOLE VOTING POWER -0-			LACE OF ORGANIZATION	
EACH 6 SHARED VOTING POWER 1,778,064 (c) REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER -0- 8 SHARED DISPOSITIVE POWER 1,778,064 (c) 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,778,064 (c) 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES * 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 7.5% (b) 12 TYPE OF REPORTING PERSON OO	SHARES BENEFICIAL	5 LLY	SOLE VOTING POWER	-0-
WITH 7 SOLE DISPOSITIVE POWER -0- 8 SHARED DISPOSITIVE POWER 1,778,064 (c) 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,778,064 (c) 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES * 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 7.5% (b) 12 TYPE OF REPORTING PERSON OO	EACH REPORTING	6	SHARED VOTING POWER	1,778,064 (c)
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,778,064 (c) 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES * 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 7.5% (b) 12 TYPE OF REPORTING PERSON OO		7	SOLE DISPOSITIVE POWER	-0-
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11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 7.5% (b) 12 TYPE OF REPORTING PERSON OO			UNT BENEFICIALLY OWNED BY EACH RE	PORTING PERSON
7.5% (b) 12 TYPE OF REPORTING PERSON OO	10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLU	UDES CERTAIN SHARES *
00			SS REPRESENTED BY AMOUNT IN ROW (9)	
			NG PERSON	
APM VIII is the general partner of AP VIII and shares voting and dispositive power over the shares of Common Stock held by		APM VIII is the gene	eral partner of AP VIII and shares voting and dis	spositive power over the shares of Common Stock held by AP V

	1	NAMES OF REPOR Farah Champsi	TING PERSON	
	2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GRO	UP (a) □□ (b) ☑
	3	SEC USE ONLY		
	4	CITIZENSHIP OR F U.S.A.	LACE OF ORGANIZATION	
	NUMBER OF SHARES BENEFICIALLY OWNED BY	5	SOLE VOTING POWER	-0-
	EACH REPORTING PERSON	6	SHARED VOTING POWER	1,778,064(e)
	WITH	7	SOLE DISPOSITIVE POWER	-0-
		8	SHARED DISPOSITIVE POWER	1,778,064 (e)
	9	AGGREGATE AMO 1,778,064 (e)	DUNT BENEFICIALLY OWNED BY EACH	REPORTING PERSON
	10	CHECK BOX IF TH	IE AGGREGATE AMOUNT IN ROW (9) EX	CCLUDES CERTAIN SHARES *
	11	PERCENT OF CLA 7.5% (b)	SS REPRESENTED BY AMOUNT IN ROW	7 (9)
	12	TYPE OF REPORTE	ING PERSON	
(e)	(ring director of APM VIII and may be deemen stock held by AP VIII.	ed to share voting and dispositive control over the 1,778,064

	1	NAMES OF REPO	RTING PERSON	
	2	CHECK THE APPI	ROPRIATE BOX IF A MEMBER OF A GROU	UP (a) □□ (b) ☑
	3	SEC USE ONLY		
	4	CITIZENSHIP OR U.S.A.	PLACE OF ORGANIZATION	
	NUMBER OF SHARES BENEFICIALLY OWNED BY	5	SOLE VOTING POWER	-0-
	EACH REPORTING PERSON	6	SHARED VOTING POWER	1,778,064 (g)
	WITH	7	SOLE DISPOSITIVE POWER	-0-
		8	SHARED DISPOSITIVE POWER	1,778,064 (g)
	9	AGGREGATE AM 1,778,064 (g)	OUNT BENEFICIALLY OWNED BY EACH	REPORTING PERSON
	10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXC	CLUDES CERTAIN SHARES *
	11	PERCENT OF CLA 7.5% (b)	ASS REPRESENTED BY AMOUNT IN ROW	(9)
	12	TYPE OF REPORTIN	TING PERSON	
(g)		Janney is a managi of Common Stock		to share voting and dispositive control over the 1,778,064 shares

1	NAMES OF REPO	RTING PERSON	
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROU	P (a) □□ (b) 🗷
3	SEC USE ONLY		
4	CITIZENSHIP OR U.S.A.	PLACE OF ORGANIZATION	
NUMBER OI SHARES BENEFICIALI	5 L Y	SOLE VOTING POWER	-0-
OWNED BY EACH REPORTING	6	SHARED VOTING POWER	1,778,064 (i)
PERSON WITH	7	SOLE DISPOSITIVE POWER	-0-
	8	SHARED DISPOSITIVE POWER	1,778,064 (i)
9	AGGREGATE AN 1,778,064 (i)	IOUNT BENEFICIALLY OWNED BY EACH F	REPORTING PERSON
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXC	CLUDES CERTAIN SHARES *
11	PERCENT OF CL 7.5% (b)	ASS REPRESENTED BY AMOUNT IN ROW ((9)
12	TYPE OF REPOR'	ΓING PERSON	

⁽i) Nohra is a managing director of APM VIII and may be deemed to share voting and dispositive control over the 1,778,064 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")
Fara 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	
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	Shares Held	Sole Voting	Shared Voting	Sole Dispositive	Shared Dispositive	Beneficial	Percentage of
Fund Entities	Directly	Power	Power	Power	Power	Ownership	Class
APVIII	1,778,064	0	1,778,064	0	1,778,064	1,778,064	7.5%
APMVIII	0	0	1,778,064	0	1,778,064	1,778,064	7.5%
DJ	0	0	1,778,064	0	1,778,064	1,778,064	7.5%
GN	0	0	1,778,064	0	1,778,064	1,778,064	7.5%
FC	0	0	1,778,064	0	1,778,064	1,778,064	7.5%

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/ Farah Champsi Farah Champsi

EXHIBIT A

AGREEMENT OF JOINT FILING

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

Alta P	artners VIII, L.P. Ita Partners Management VIII, LLC	
ву: Аі	ita Partneis Management viii, LLC	
Ву:	/s/ Daniel Janney Daniel Janney, Managing Director	
Alto D	artners Management VIII, LLC	
Ву:	/s/ Daniel Janney Daniel Janney, Managing Director	
/s/ Dar	niel Janney	
Daniel	I Janney	
s/ Guy	y Nohra	
Guy N	ohra	
	ah Champsi Champsi	
c at all	Спатро	

Attachment A

Alta Partners VIII, L.P. beneficially owns 1,778,064 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.