FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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OMB Number: 3235-0287 Estimated average burden

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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	s of Reporting Person* re Management	<u>Co. V, L.L.C.</u>	2. Issuer Name and Ticker or Trading Symbol aTYR PHARMA INC [LIFE]	Relationship of Reporting Person(s) to Issuer (Check all applicable) Director
	(First) ENTURE PARTNI TREET, SUITE 33		3. Date of Earliest Transaction (Month/Day/Year) 05/12/2015	Officer (give title Other (specify below)
(Street) WALTHAM (City)	MA (State)	02541 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person X Form filed by More than One Reporting Person

	le I - Non-Derivativ							1		7. Nature of
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)	action (Instr.	4. Securities A Disposed Of (I	cquired (. D) (Instr. 3	A) or 8, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Indirect Beneficial Ownership (Instr.
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)]
Common Stock	05/12/2015		С		1,674,825	A	(1)	1,674,825 ⁽²⁾	I	By Polaris Venture Partners V, L.P. ⁽³⁾⁽⁴⁾
Common Stock	05/12/2015		С		32,642	A	(1)	32,642 ⁽²⁾	I	By Polaris Venture Partners Entrepreneurs Fund V, L.P.
Common Stock	05/12/2015		С		11,472	A	(1)	11,472(2)	I	By Polaris Venture Partners Founders' Fund V, L.P. ⁽⁶⁾
Common Stock	05/12/2015		С		16,748	A	(1)	16,748(2)	I	Polaris Venture Partners Special Founders' Fund V, L.P.
Common Stock	05/12/2015		С		89,069	A	(8)	1,763,894 ⁽⁹⁾	I	By Polaris Venture Partners V, L.P. ⁽³⁾⁽⁴⁾
Common Stock	05/12/2015		С		1,736	A	(8)	34,378 ⁽⁹⁾	I	By Polaris Venture Partners Entrepreneurs Fund V, L.P. ⁽⁵⁾
Common Stock	05/12/2015		С		610	A	(8)	12,082 ⁽⁹⁾	I	By Polaris Venture Partners Founders' Fund V, L.P. ⁽⁶⁾
Common Stock	05/12/2015		С		890	A	(8)	17,638 ⁽⁹⁾	I	Polaris Venture Partners Special Founders' Fund V, L.P. ⁽⁷⁾

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)	34 Spanner - De Execution Date if any (e. (Month/Day/Year)	rtvati Transa 9coleu 8)	ve Section	Acq or D	uired (A) isposed of Instr. 3, 4	Pripad Engle Expiration Di SMORMONS	i <mark>ନ୍ତି ଓଡ଼ିଆ</mark> of ale _୧ ଛ୍ନ onvert	70 Fitts an Securities IDG S.C.G (Instr. 3 ar	feffigwill of O i Underlying usulms) nd 4)	Wir Prings of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
								Date	Expiration		Amount or Number of		Transaction(s) (Instr. 4)		
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. Transa Code (8)		5. No Deri Seco Acq or D	umber of vative urities uired (A) isposed of lnstr. 3, 4 5)	6. Date Exerc Expiration Da (Month/Day/N	ate			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)		
Series B Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			3,473,763	(1)	(1)	Common Stock	436,725(2)	\$0.00	0	I	By Polaris Venture Partners V, L.P. ⁽³⁾⁽⁴⁾
Series B Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			67,704	(1)	(1)	Common Stock	8,512 ⁽²⁾	\$0.00	0	I	By Polaris Venture Partners Entrepreneurs' Fund V, L.P. (5)
Series B Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			23,796	(1)	(1)	Common Stock	2,992(2)	\$0.00	0	I	By Polaris Venture Partners Founders' Fund V, L.P. (6)
Series B Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			34,737	(1)	(1)	Common Stock	4,367(2)	\$0.00	0	I	Polaris Venture Partners Special Founders' Fund V, L.P.
Series B-2 Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			4,168,683	(1)	(1)	Common Stock	524,090 ⁽²⁾	\$0.00	0	I	By Polaris Venture Partners V, L.P. ⁽³⁾⁽⁴⁾
Series B-2 Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			81,248	(1)	(1)	Common Stock	10,214 ⁽²⁾	\$0.00	0	I	By Polaris Venture Partners Entrepreneurs' Fund V, L.P. (5)
Series B-2 Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			28,556	(1)	(1)	Common Stock	3,590 ⁽²⁾	\$0.00	0	I	By Polaris Venture Partners Founders' Fund V, L.P. (6)
Series B-2 Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			41,686	(1)	(1)	Common Stock	5,241 ⁽²⁾	\$0.00	0	I	By Polaris Venture Partners Special Founders' Fund V, L.P.
Series C Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			4,208,756	(1)	(1)	Common Stock	529,128 ⁽²⁾	\$0.00	0	I	By Polaris Venture Partners V, L.P. ⁽³⁾⁽⁴⁾
Series C Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			82,029	(1)	(1)	Common Stock	10,313(2)	\$0.00	0	I	By Polaris Venture Partners Entrepreneurs' Fund V, L.P. (5)
Series C Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			28,831	(1)	(1)	Common Stock	3,624 ⁽²⁾	\$0.00	0	I	By Polaris Venture Partners Founders' Fund V, L.P. (6)
Series C Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			42,087	(1)	(1)	Common Stock	5,291 ⁽²⁾	\$0.00	0	I	By Polaris Venture Partners Special Founders' Fund V, L.P.
Series D Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			1,470,577	(1)	(1)	Common Stock	184,882 ⁽²⁾	\$0.00	0	I	By Polaris Venture Partners V, L.P. ⁽³⁾⁽⁴⁾
Series D Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			28,661	(1)	(1)	Common Stock	3,603(2)	\$0.00	0	I	By Polaris Venture Partners Entrepreneurs' Fund V, L.P. (5)

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. Transa Code (8)		Derivative Exp		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)		
Series D Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			10,074	(1)	(1)	Common Stock	1,266(2)	\$0.00	0	I	By Polaris Venture Partners Founders' Fund V, L.P. (6)
Series D Redeemable Convertible Preferred Stock	(1)	05/12/2015		С			14,706	(1)	(1)	Common Stock	1,849(2)	\$0.00	0	I	By Polaris Venture Partners Special Founders' Fund V, L.P.
Series E Redeemable Convertible Preferred Stock	(8)	05/12/2015		С			862,318	(8)	(8)	Common Stock	89,069 ⁽⁹⁾	\$0.00	0	I	By Polaris Venture Partners V, L.P. ⁽³⁾⁽⁴⁾
Series E Redeemable Convertible Preferred Stock	(8)	05/12/2015		С			16,806	(8)	(8)	Common Stock	1,736 ⁽⁹⁾	\$0.00	0	I	By Polaris Venture Partners Entrepreneurs' Fund V, L.P. (5)
Series E Redeemable Convertible Preferred Stock	(8)	05/12/2015		С			5,906	(8)	(8)	Common Stock	610 ⁽⁹⁾	\$0.00	0	I	By Polaris Venture Partners Founders' Fund V, L.P. (6)
Series E Redeemable Convertible Preferred Stock	(8)	05/12/2015		С			8,623	(8)	(8)	Common Stock	890 ⁽⁹⁾	\$0.00	0	I	By Polaris Venture Partners Special Founders' Fund V, L.P.

1. Name and	1. Name and Address of Reporting Person*							
	Polaris Venture Management Co. V, L.L.C.							
(Last)		(First)	(Middle)					
C/O POL	ARIS VEN	TURE PARTNE	RS,					
1000 WIN	1000 WINTER STREET, SUITE 3350							
(Street)								
WALTHA	.M	MA	02541					
(City)		(State)	(Zip)					
1. Name and	Address of F	Reporting Person*						
Polaris V	Venture P	<u>artners V, L.F</u>	<u>).</u>					
(Last)		(First)	(Middle)					
1000 WIN	ITER STRE	EET, SUITE 335	0					
(Street)								
WALTHA	.M	MA	02451					
(City)	(City) (State) (Zip)							
1. Name and	Address of F	Reporting Person*						
Polaris V	Polaris Venture Partners Entrepreneurs' Fund V, L.P.							
(Last)		(First)	(Middle)					
1000 WINTER STREET, SUITE 3350								

MA

02451

(Street) WALTHAM

(City)	(State)	(Zip)					
	ess of Reporting Person are Partners Four	· nders' Fund V, L.P.					
(Last)	(First)	(Middle)					
1000 WINTER	STREET, SUITE 33	350					
(Street) WALTHAM	MA	02451					
(City)	(State)	(Zip)					
1. Name and Address of Reporting Person* Polaris Venture Partners Special Founders' Fund V, L.P.							
Polaris Ventu							
Polaris Ventu							
Polaris Ventu L.P. (Last)	<u>ire Partners Spec</u>	cial Founders' Fund V, (Middle)					
Polaris Ventu L.P.	(First)	cial Founders' Fund V, (Middle)					

Explanation of Responses:

- 1. The aggregate number of shares of Issuer's Preferred Stock held by the Reporting Person converted into Common Stock immediately prior to the closing of the Issuer's initial public offering and has no expiration date. These shares converted into Common Stock on a 1-for-7.95413 basis.
- 2. Reflects a 1-for-7.95413 stock conversion of the Issuer's Preferred Stock into Common Stock which became effective immediately prior to the closing of the Issuer's initial public offering.
- 3. These shares are owned directly by Polaris Venture Partners V, L.P. ("Polaris V"), whose sole general partner is Polaris Venture Management Co. V, LLC ("Polaris Management"). Each of Jonathan A. Flint ("Flint") and Terrance G. McGuire ("McGuire") are the managing members of Polaris Management. Amir Nashat ("Nashat"), who is a member of the Issuer's Board of Directors, is a member of Polaris Management. Each of Flint, McGuire and Nashat, in their respective capacities with regard to Polaris Management, may be deemed to have shared voting and dispositive power over the shares held by each of Polaris V, Polaris Venture Partners Entrepreneurs' Fund V, L.P. ("Polaris Founders' Fund V, L.P. ("Polaris Founders' V") and Polaris Venture Partners Special Founders' Fund V, L.P. ("Polaris Special Founders' V, and together with Polaris V, Polaris Entrepreneurs' V and Polaris Founders' V, the "Polaris V Funds").
- 4. (Continued from Footnote 3) Each of Flint, McGuire, Nashat and Polaris Management disclaims beneficial ownership of these securities and this report shall not be deemed to be an admission that any one of them is the beneficial owner of such securities for purposes of Section 16 or any other purpose, except to the extent of their pecuniary interest therein.
- 5. These shares are owned directly by Polaris Entrepreneurs' V, whose sole general partner is Polaris Management. Each of Flint and McGuire are the managing members of Polaris Management. Nashat, who is a member of the Issuer's Board of Directors, is a member of Polaris Management. Each of Flint, McGuire and Nashat, in their respective capacities with regard to Polaris Management may be deemed to have shared voting and dispositive power over the shares held by each of of the Polaris V Funds. Each of Flint, McGuire, Nashat and Polaris Management disclaims beneficial ownership of these securities and this report shall not be deemed to be an admission that any one of them is the beneficial owner of such securities for purposes of Section 16 or any other purpose, except to the extent of their pecuniary interest therein.
- 6. These shares are owned directly by Polaris Founders' V, whose sole general partner is Polaris Management. Each of Flint and McGuire are the managing members of Polaris Management. Nashat, who is a member of the Issuer's Board of Directors, is a member of Polaris Management. Each of Flint, McGuire and Nashat, in their respective capacities with regard to Polaris Management, may be deemed to have shared voting and dispositive power over the shares held by each of the Polaris V Funds. Each of Flint, McGuire, Nashat and Polaris Management disclaims beneficial ownership of these securities and this report shall not be deemed to be an admission that any one of them is the beneficial owner of such securities for purposes of Section 16 or any other purpose, except to the extent of their pecuniary interest therein.
- 7. These shares are owned directly by Polaris Special Founders' V, whose sole general partner is Polaris Management. Each of Flint and McGuire are the managing members of Polaris Management. Nashat, who is a member of the Issuer's Board of Directors, is a member of Polaris Management. Each of Flint, McGuire and Nashat, in their respective capacities with regard to Polaris Management, may be deemed to have shared voting and dispositive power over the shares held by each of the Polaris V Funds. Each of Flint, McGuire, Nashat and Polaris Management disclaims beneficial ownership of these securities and this report shall not be deemed to be an admission that any one of them is the beneficial owner of such securities for purposes of Section 16 or any other purpose, except to the extent of their pecuniary interest therein.
- 8. The aggregate number of shares of Issuer's Preferred Stock held by the Reporting Person converted into Common Stock immediately prior to the closing of the Issuer's initial public offering and has no expiration date. These shares converted into Common Stock on a 1-for-9.6814 basis.
- 9. Reflects a 1-for 9.6814 stock conversion of the Issuer's Preferred Stock into Common Stock which became effective immediately prior to the closing of the Issuer's initial public offering.

Remarks:

/S/ John Gainon, Attorney-in-	
Fact for Polaris Venture Management Co. V, L.L.C.	05/14/2015
/s/ John Gannon, Attorney-in- Fact for Polaris Venture	05/14/2015
Management Co. V, L.L.C., the general partner of Polaris Venture Partners V, L.P.	05/14/2015
/s/ John Gannon, Attorney-in- Fact for Polaris Venture Management Co. V, L.L.C., the general partner of Polaris Venture Partners Entrepreneurs' Fund V, L.P.	05/14/2015
/s/ John Gannon, Attorney-in- Fact for Polaris Venture Management Co. V, L.L.C., the general partner of Polaris Venture Partners Founders' Fund V, L.P.	<u>05/14/2015</u>
/s/ John Gannon, Attorney-in- Fact for Polaris Venture Management Co. V, L.L.C., the general partner of Polaris Venture Partners Special Founders' Fund V, L.P.	05/14/2015
** Signature of Reporting Person	Date

/s/ John Gannon, Attornev-in-

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

- * 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).

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