

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934
or Section 30(h) of the Investment Company Act of 1940

<div>1. Name and Address of Reporting Person*</div> <div><u>Domain Partners VIII, L.P.</u></div> <div>(Last) (First) (Middle)</div> <div><u>C/O DOMAIN ASSOCIATES, LLC</u></div> <div><u>ONE PALMER SQUARE</u></div> <div>(Street)</div> <div><u>PRINCETON NJ 08542</u></div> <div>(City) (State) (Zip)</div>	<div>2. Date of Event Requiring Statement (Month/Day/Year)</div> <div><u>05/06/2015</u></div>	<div>3. Issuer Name and Ticker or Trading Symbol</div> <div><u>aTYR PHARMA INC [LIFE]</u></div> <div>4. Relationship of Reporting Person(s) to Issuer (Check all applicable)</div> <div>Director <input checked="" type="checkbox"/> 10% Owner</div> <div>Officer (give title below) Other (specify below)</div> <div>5. If Amendment, Date of Original Filed (Month/Day/Year)</div> <div>6. Individual or Joint/Group Filing (Check Applicable Line)</div> <div><input checked="" type="checkbox"/> Form filed by One Reporting Person</div> <div><input type="checkbox"/> Form filed by More than One Reporting Person</div>
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Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Series C Preferred Stock	(1)	(1)	Common Stock	12,143,933 ⁽²⁾	(1)(2)	D ⁽⁴⁾ (5)(6)	
Series D Preferred Stock	(1)	(1)	Common Stock	1,506,901 ⁽²⁾	(1)(2)	D ⁽⁴⁾ (5)(6)	
Series E Preferred Stock	(1)	(1)	Common Stock	887,073 ⁽³⁾	(1)(3)	D ⁽⁴⁾ (5)(6)	

1. Name and Address of Reporting Person*

Domain Partners VIII, L.P.

(Last) (First) (Middle)

C/O DOMAIN ASSOCIATES, LLC

ONE PALMER SQUARE

(Street)

PRINCETON NJ 08542

(City) (State) (Zip)

1. Name and Address of Reporting Person*

BLAIR JAMES C

(Last) (First) (Middle)

C/O DOMAIN ASSOCIATES, LLC

ONE PALMER SQUARE

(Street)

PRINCETON NJ 08542

(City) (State) (Zip)

1. Name and Address of Reporting Person*

[DOVEY BRIAN H](#)

(Last) (First) (Middle)

C/O DOMAIN ASSOCIATES, LLC
ONE PALMER SQUARE

(Street)

PRINCETON NJ 08542

(City) (State) (Zip)

1. Name and Address of Reporting Person*

[TREU JESSE I](#)

(Last) (First) (Middle)

C/O DOMAIN ASSOCIATES, LLC
ONE PALMER SQUARE

(Street)

PRINCETON NJ 08542

(City) (State) (Zip)

1. Name and Address of Reporting Person*

[SCHOEMAKER KATHLEEN K](#)

(Last) (First) (Middle)

C/O DOMAIN ASSOCIATES, LLC
ONE PALMER SQUARE

(Street)

PRINCETON NJ 08542

(City) (State) (Zip)

1. Name and Address of Reporting Person*

[VITULLO NICOLE](#)

(Last) (First) (Middle)

C/O DOMAIN ASSOCIATES, LLC
ONE PALMER SQUARE

(Street)

PRINCETON NJ 08542

(City) (State) (Zip)

1. Name and Address of Reporting Person*

[Halak Brian K](#)

(Last) (First) (Middle)

C/O DOMAIN ASSOCIATES, LLC
ONE PALMER SQUARE

(Street)

PRINCETON NJ 08542

(City) (State) (Zip)

Explanation of Responses:

1. All outstanding Preferred Stock will automatically convert into Common Stock immediately prior to the closing of the Issuer's initial public offering for no additional consideration. The Preferred Stock has no expiration date.
2. These shares convert into Common Stock on a 1-for-7.95413 basis.
3. These shares convert into Common Stock on a 1-for-9.6814 basis.
4. The securities reported as directly beneficially owned by the designated Reporting Person may be deemed to be indirectly beneficially owned by each of the Reporting Owners listed below, each of whom is a managing member of One Palmer Square Associates VIII, LLC, the sole general partner of the designated Reporting Person. Pursuant to Instruction 5(b)(iv) of Form 3, each such individual has elected to report as indirectly beneficially owned the entire number of securities owned by the designated Reporting Person, however each of them disclaims beneficial ownership of any securities, and any proceeds thereof, that exceed his or her pecuniary interest therein and/or that are not actually distributed to him or her.
5. As managing members of the sole general partner of DP VIII Associates, L.P., each Reporting Owner listed below may also be deemed to indirectly beneficially own the securities of the Issuer held by DP VIII Associates, L.P., as reported on a Form 3 for DP VIII Associates, L.P. filed on the same date as this Form 3.
6. As managing members of Domain Associates, LLC, each Reporting Owner listed below may also be deemed to indirectly beneficially own the securities of the Issuer held by Domain Associates, LLC, as reported on a Form 3 for Domain Associates, LLC filed on the same date as this Form 3.

Remarks:

/s/ Kathleen K. Schoemaker, as
Managing Member of One
Palmer Square Associates VIII,
LLC, General Partner of
Domain Partners VIII, L.P., 05/06/2015
individually, and as Attorney-
in-Fact for J. Blair, B. Dovey,
J. Treu, N. Vitullo and B.
Halak

** Signature of Reporting Person Date

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 5 (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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.