FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF **SECURITIES**

OMB APPROVAL							
OMB Number:	3235-0104						
Estimated average burden							
hours per response:	0.5						

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

EcoR1 Capital Fund Qualified, L.P.	2. Date of Event Requiring Statement (Month/Day/Year) 08/28/2017 3. Issuer Name and Ticker or Trading Symbol aTYR PHARMA INC [ATYR]									
(Last) (First) (Middle) 409 ILLINOIS STREET			Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner			5. If Amendment, Date of Original Filed (Month/Day/Year)				
(Street) SAN FRANCISCO CA 94158 (City) (State) (Zip)			Officer (give title below)	Other (spec below)	Ap	plicable Line) X Form filed b	VGroup Filing (Check y One Reporting Person y More than One erson			
Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4)		seneficially Owned (Instr. 4)			Nature of Indirect Beneficial Ownership str. 5)					
Common Stock		3,193,541	D							
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. Conversio or Exercise Price of	se Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)			
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivative Security	Direct (D) or Indirect (I) (Instr. 5)				
Warrant	08/28/2017	12/31/2019	Common Stock	574,245	4.64	D				

Explanation of Responses:

EcoR1 Capital Fund Qualified,

L.P., by Oleg Nodelman, Manager of EcoR1 Capital,

09/05/2017

LLC, General Partner

** Signature of Reporting Person Date

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

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.

^{*} 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).