FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

1. Name and Address of Reporting Person* MENDLEIN JOHN					<u>aTY</u>	Issuer Name and Ticker or Trading Symbol ATYR PHARMA INC [LIFE] Date of Earliest Transaction (Month/Day/Year)									all app	blicable) tor		Owner
						12/19/2016								X	Offic belov	,	Other below Director	(specify ()
(Street) SAN DIE (City)	AN DIEGO CA 92121			4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								3. Indiv ine) X	Form	dual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye				Year) E	Execution Date,			Transaction [4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			4 and Secui		icially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) or (D) Price			Repo Trans		(11541. 4)	(111541. 4)
Common Stock 12/19/201						16		P		69,000	A	\$2.1	\$2.198(1)		4,971(2)	D		
	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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Expirati (Month/	ion D		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 (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Number of Shares					

Explanation of Responses:

- 1. Represents the weighted average price for the shares. The shares were purchased at prices ranging from \$2.125 to \$2.25 per share. The reporting person will provide to the Securities and Exchange Commission staff, the issuer, or any security holder of the issuer, upon request, full information regarding the number of shares purchased at each separate price.
- 2. Includes 2,500 shares acquired under the Company's 2015 Employee Stock Purchase Plan ("ESPP") on May 15, 2016 and 2,500 shares acquired under the ESPP on November 15, 2016.

Remarks:

/s/ Nancy Krueger, as Attorney-in-Fact 12/21/2016

** 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 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).

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.