

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

**Pursuant to Section 13 or 15(d) of the
Securities Exchange Act of 1934**

Date of Report (Date of earliest event reported): January 27, 2016

ATYR PHARMA, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation)

001-37378
(Commission
File Number)

20-3435077
(I.R.S. Employer
Identification No.)

**3545 John Hopkins Court, Suite #250
San Diego, CA 92121**

(Address of principal executive offices, including zip code)

(858) 731-8389

(Registrant's telephone number, including area code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.

Adoption of Senior Executive Cash Incentive Bonus Plan

On January 27, 2016, the Compensation Committee (the “Compensation Committee”) of the Board of Directors (the “Board”) of aTyr Pharma, Inc. (the “Company”) adopted the Company’s Senior Executive Cash Incentive Bonus Plan (the “Bonus Plan”), which applies to certain key executives (the “Executives”) that are selected by the Compensation Committee. A copy of the Bonus Plan is filed with this Current Report on Form 8-K as Exhibit 10.1.

The Bonus Plan provides for bonus payments based upon the attainment of performance targets established by the Compensation Committee and related to financial and operational metrics with respect to the Company or any of its subsidiaries (the “Performance Goals”), which may include, among others, achievement of specified research and development, publication, clinical and/or regulatory milestones, total shareholder return, earnings before interest, taxes, depreciation and amortization, net income (loss) (either before or after interest, taxes, depreciation, stock compensation expense, restructuring charges and/or amortization), changes in the market price of the Company’s common stock, economic value-added, funds from operations or similar measure, sales or revenue, acquisitions or strategic transactions, operating income (loss), cash flow (including, but not limited to, operating cash flow and free cash flow), return on capital, assets, equity, or investment, return on sales, gross or net profit levels, productivity, expense, margins, operating efficiency, customer satisfaction, working capital, earnings (loss) per share of the Company’s common stock, sales or market shares and number of customers.

Any bonuses paid under the Bonus Plan shall be based upon objectively determinable bonus formulas that tie such bonuses to one or more performance targets relating to the Performance Goals. The bonus formulas shall be adopted in each performance period by the Compensation Committee and communicated to each Executive. No bonuses shall be paid under the Bonus Plan unless and until the Compensation Committee makes a determination with respect to the attainment of the Performance Goals. Notwithstanding the foregoing, the Compensation Committee may adjust bonuses payable under the Bonus Plan based on achievement of individual performance goals or pay bonuses (including, without limitation, discretionary bonuses) to Executives under the Bonus Plan based upon such other terms and conditions as the Compensation Committee may in its discretion determine.

Each Executive shall have a targeted bonus opportunity set for each performance period and may also have a “minimum” hurdle and/or a “maximum” amount. The Performance Goals will be measured as of the end of the applicable performance period and after such period has ended; provided that if the Performance Goal is dependent on financial metrics as reported in the Company’s financial reports for any particular period, such Performance Goals shall be measured after the applicable financial reports have been published. If the Performance Goals are met, payments will be made as soon as practicable following the end of such period, but not later than 74 days after the end of the fiscal year in which such performance period ends. An Executive must be employed by the Company as of the payment date in order to receive a bonus payment, except as otherwise provided in any written agreement between the Executive and the Company.

Approval of Salary Increase and Bonus for Chief Executive Officer

On January 27, 2016, as part of its annual review of compensation, the Compensation Committee of the Company approved (i) annual base salary for certain of the Company's executive officers, which are effective as of January 1, 2016, and (ii) the payment of cash bonuses to certain of the Company's executive officers with respect to 2015 performance. In addition, on January 27, 2016, upon recommendation of the Compensation Committee, the Board approved the following for John D. Mendlein, Ph.D., the Company's Chief Executive Officer: (i) an increase in Dr. Mendlein's base salary to \$494,700.00 (effective January 1, 2016) from his current base salary of \$472,750.00, and (ii) payment of a cash bonus to Dr. Mendlein in the amount of \$210,375.00 with respect to 2015 performance.

Appointment of Principal Financial Officer

On January 27, 2016, the Board appointed John Blake, the Company's Vice President, Finance to succeed Mr. Stan Blackburn as the Company's principal financial officer, effective immediately. Mr. Blackburn retired from his position as the Company's Acting Chief Financial Officer and principal financial officer effective as of January 27, 2016. Mr. Blackburn will continue to serve as a financial consultant for the Company.

Mr. Blake, 39, has served as the Vice President, Finance of the Company since October 2015 and the Senior Director Finance and Controller of the Company since March 2015. Prior to joining the Company, Mr. Blake served as the Director, Financial Planning and Analysis of Volcano Corporation, a publicly traded medical device company, from March 2010 to March 2015 and as the SEC Reporting Manager from November 2008 through March 2010. From April 2007 to November 2008, Mr. Blake served in various senior finance roles at Entropic Communications. Prior to 2007, Mr. Blake served as an auditor in public accounting and an analyst for BD Biosciences. Mr. Blake is a Certified Public Accountant and holds a Bachelor of Business Administration with a concentration in Accountancy from National University.

There are (a) no understandings or arrangements between Mr. Blake and any other person pursuant to which he was appointed as principal financial officer of the Company and (b) Mr. Blake has no material interest in any transaction or proposed transaction in which the Company is or is to be a party. Mr. Blake has no family relationship with any director or executive officer of the Company.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit No.	Description
10.1	Senior Executive Cash Incentive Bonus Plan

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: January 29, 2016

aTyr Pharma, Inc.

By: /S/ JOHN D. MENDLEIN

John D. Mendlein, Ph.D.

Chief Executive Officer

EXHIBIT INDEX

Exhibit No.	Description
10.1	Senior Executive Cash Incentive Bonus Plan

ATYR PHARMA, INC.
SENIOR EXECUTIVE CASH INCENTIVE BONUS PLAN

1. Purpose

This Senior Executive Cash Incentive Bonus Plan (the “*Incentive Plan*”) is intended to provide an incentive for superior work and to motivate eligible executives of aTyr Pharma, Inc. (the “*Company*”) and its subsidiaries toward even higher achievement and business results, to tie their goals and interests to those of the Company and its stockholders and to enable the Company to attract and retain highly qualified executives. The Incentive Plan is for the benefit of Covered Executives (as defined below).

2. Covered Executives

From time to time, the Compensation Committee of the Board of Directors of the Company (the “*Compensation Committee*”) may select certain key executives (the “*Covered Executives*”) to be eligible to receive bonuses hereunder. Participation in this Plan does not change the “at will” nature of a Covered Executive’s employment with the Company.

3. Administration

The Compensation Committee shall have the sole discretion and authority to administer and interpret the Incentive Plan.

4. Bonus Determinations

(a) Corporate Performance Goals. A Covered Executive may receive a bonus payment under the Incentive Plan based upon the attainment of one or more performance objectives that are established by the Compensation Committee and relate to financial and operational metrics with respect to the Company or any of its subsidiaries (the “*Corporate Performance Goals*”), including the following: achievement of specified research and development, publication, clinical and/or regulatory milestones, total shareholder return, earnings before interest, taxes, depreciation and amortization, net income (loss) (either before or after interest, taxes, depreciation, stock compensation expense, restructuring charges and/or amortization), changes in the market price of the Company’s common stock, economic value-added, funds from operations or similar measure, sales or revenue, acquisitions or strategic transactions, operating income (loss), cash flow (including, but not limited to, operating cash flow and free cash flow), return on capital, assets, equity, or investment, return on sales, gross or net profit levels, productivity, expense, margins, operating efficiency, customer satisfaction, working capital, earnings (loss) per share of the Company’s common stock, sales or market shares and number of customers, any of which may be (A) measured in absolute terms or compared to any incremental increase, (B) measured in terms of growth, (C) compared to another company or companies or to results of a peer group, (D) measured against the market as a whole and/or as compared to applicable market indices and/or (E) measured on a pre-tax or post-tax basis (if applicable). Further, any Corporate Performance Goals may be used to measure the performance of the Company as a whole or a business unit or other segment of the Company, or one or more product lines or specific markets. The Corporate Performance Goals may differ from Covered Executive to Covered Executive.

(b) Calculation of Corporate Performance Goals. At the beginning of each applicable performance period, the Compensation Committee will determine whether any significant element(s) will be included in or excluded from the calculation of any Corporate Performance Goal with respect to any Covered Executive. In all other respects, Corporate Performance Goals will be calculated in accordance with the Company's financial statements, generally accepted accounting principles, or under a methodology established by the Compensation Committee at the beginning of the performance period and which is consistently applied with respect to a Corporate Performance Goal in the relevant performance period.

(c) Target; Minimum; Maximum. Each Corporate Performance Goal shall have a "target" (100 percent attainment of the Corporate Performance Goal) and may also have a "minimum" hurdle and/or a "maximum" amount.

(d) Bonus Requirements; Individual Goals. Except as otherwise set forth in this Section 4(d): (i) any bonuses paid to Covered Executives under the Incentive Plan shall be based upon objectively determinable bonus formulas that tie such bonuses to one or more performance targets relating to the Corporate Performance Goals, (ii) bonus formulas for Covered Executives shall be adopted in each performance period by the Compensation Committee and communicated to each Covered Executive at the beginning of each performance period and (iii) no bonuses shall be paid to Covered Executives unless and until the Compensation Committee makes a determination with respect to the attainment of the performance targets relating to the Corporate Performance Goals. Notwithstanding the foregoing, the Compensation Committee may adjust bonuses payable under the Incentive Plan based on achievement of one or more individual performance objectives or pay bonuses (including, without limitation, discretionary bonuses) to Covered Executives under the Incentive Plan based on individual performance goals and/or upon such other terms and conditions as the Compensation Committee may in its discretion determine.

(e) Individual Target Bonuses. The Compensation Committee shall establish a target bonus opportunity for each Covered Executive for each performance period. For each Covered Executive, the Compensation Committee shall have the authority to apportion the target award so that a portion of the target award shall be tied to attainment of Corporate Performance Goals and a portion of the target award shall be tied to attainment of individual performance objectives.

(f) Employment Requirement. Subject to any additional terms contained in a written agreement between the Covered Executive and the Company, the payment of a bonus to a Covered Executive with respect to a performance period shall be conditioned upon the Covered Executive's employment by the Company on the bonus payment date. If a Covered Executive was not employed for an entire performance period, the Compensation Committee may pro rate the bonus based on the number of days employed during such period.

5. Timing of Payment

(a) With respect to Corporate Performance Goals established and measured on a basis more frequently than annually (e.g., quarterly or semi-annually), the Corporate Performance Goals will be measured at the end of each performance period after the Company's financial reports with respect to such period(s) have been published. If the Corporate Performance Goals and/or individual goals for such period are met, payments will be made as soon as practicable following the end of such period, but not later 74 days after the end of the fiscal year in which such performance period ends.

(b) With respect to Corporate Performance Goals established and measured on an annual or multi-year basis, Corporate Performance Goals will be measured as of the end of each such performance period (e.g., the end of each fiscal year) after the Company's financial reports with respect to such period(s) have been published. If the Corporate Performance Goals and/or individual goals for any such period are met, bonus payments will be made as soon as practicable, but not later than 74 days after the end of the relevant fiscal year.

(c) For the avoidance of doubt, bonuses earned at any time in a fiscal year must be paid no later than 74 days after the last day of such fiscal year.

6. Amendment and Termination

The Company reserves the right to amend or terminate the Incentive Plan at any time in its sole discretion.

7. Clawback Policy

Awards under the Incentive Plan shall be subject to the Company's clawback policy, as in effect from time to time.