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
FEBRUARY 10, 2023
Date of Report

(Date of earliest event reported)

Arrowhead Pharmaceuticals, Inc.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-38042 (Commission File Number) 46-0408024 (IRS Employer Identification No.)

177 E. Colorado Blvd, Suite 700, Pasadena, CA 91105 (Address of principal executive offices, including Zip Code) (626) 304-3400 (Registrant's telephone number, including area code)

Check the	e appropriate box below if the Form 8-K filing is intended to simult	aneously satisfy the filing obligation of the regis	trant 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))						
	Se	ecurities registered pursuant to Section 12(b) of the Act:					
	Title of each class	Trading Symbol(s)	Name of each exchange on which registered				
	Common Stock, par value \$0.001 per share	ARWR	The Nasdaq Global Select Market				
	by check mark whether the registrant is an emerging growth compare Act of 1934 (§240.12b-2 of this chapter).	ny as defined in Rule 405 of the Securities Act o	f 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities				
	erging growth company, indicate by check mark if the registrant has pursuant to Section 13(a) of the Exchange Act. □	elected not to use the extended transition period	Emerging growth company [for complying with any new or revised financial accounting standards				

Item 1.02 Termination of a Material Definitive Agreement.

On February 10, 2023, Arrowhead Pharmaceuticals, Inc. (the "Company") received notice from Janssen Pharmaceuticals, Inc. ("Janssen") that Janssen has elected to terminate the Research Collaboration and Option Agreement between the Company and Janssen, dated October 3, 2018 (as amended by Amendment No. 1 to the Research Collaboration and Option Agreement between the Company and Janssen, dated as of November 14, 2019, the "Collaboration Agreement"). Janssen exercised its right to terminate the Collaboration Agreement for convenience. The termination will take effect on April 7, 2023.

Under the terms of the Collaboration Agreement, Janssen was able to select three new targets against which the Company could develop clinical candidates. These candidates were subject to certain restrictions and did not include candidates that already were in the Company's pipeline. The Company was obligated to perform discovery, optimization and preclinical research and development, entirely funded by Janssen, which on its own or in combination with Janssen's development work, has been sufficient to allow the filing of a U.S. Investigational New Drug Application or equivalent, at which time Janssen would have had the option to take an exclusive license. Janssen exercised this option for one compound, ARO-PNPLA3, formerly called JNJ-75220795, and declined to exercise its options with respect to the other two targets. Janssen has been wholly responsible for the clinical development and commercialization of ARO-PNPLA3, until termination of the Collaboration Agreement, as described in this Current Report on Form 8-K.

Effective upon the termination of the Collaboration Agreement, all rights and licenses granted thereunder shall revert back to the Company.

The foregoing summary of the terms of the Collaboration Agreement is qualified in its entirety by reference to the Collaboration Agreement and Amendment No. 1 to the Collaboration Agreement, which were filed as Exhibits 10.21 and 10.22 to the Company's Annual Report on Form 10-K for the year ended September 30, 2022.

Item 8.01. Other Events.

On February 15, 2023, the Company issued a press release announcing the termination of the Collaboration Agreement with Janssen. A copy of the press release is attached as Exhibit 99.1 hereto and is incorporated herein by reference.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

	Exhibit No.	Description
99.1		Press Release, dated February 15, 2023.
104		Cover Page Interactive Data File (the cover page tags are embedded within the Inline XBRL document).

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 thereunto duly authorized.

Date: February 15, 2023

ARROWHEAD PHARMACEUTICALS, INC.

By: /s/ Kenneth Myszkowski

Kenneth Myszkowski Chief Financial Officer



PRESS RELEASE Feb. 15, 2023

Arrowhead Pharmaceuticals Gains Full Rights to NASH Candidate ARO-PNPLA3 with Promising Phase 1 Results

Achieved Up to 40% Mean Reduction in Liver Fat in PNPLA3 I148M Homozygotes
 After Single-Dose

PASADENA, Calif., Feb. 15, 2023 — Arrowhead Pharmaceuticals Inc. (NASDAQ: ARWR) announced today that it has gained rights to ARO-PNPLA3, formerly called JNJ-75220795, which was part of a 2018 research collaboration and option agreement between Arrowhead and Janssen Pharmaceuticals, Inc., one of the Janssen Pharmaceutical Companies of Johnson & Johnson. ARO-PNPLA3 is an investigational RNA interference (RNAi) therapeutic developed using Arrowhead's proprietary TRiM™ platform and designed to reduce liver expression of patatin-like phospholipase domain containing 3 (PNPLA3) as a potential treatment for patients with non-alcoholic steatohepatitis (NASH). ARO-PNPLA3 is currently in a Phase 1 clinical study. PNPLA3 has strong genetic and preclinical validation as a driver of fat accumulation and damage in the livers of patients who carry the common I148M mutation.

"With no FDA approved therapies, NASH remains an area of significant unmet medical need. PNPLA3 is a unique NASH drug target as the I148M disease associated variant increases the risk of NAFLD, NASH, and hepatocellular carcinoma by 4 to 12-fold for homozygotes. The vast human genetic data in support of this target are compelling and supported by a strong pathophysiologic mechanistic understanding," said Rohit Loomba, M.D., MHSc, Professor of Medicine, Director of the NAFLD Research Center at University of California at San Diego. "The Phase 1 data on ARO-PNPLA3 are extremely encouraging and I look forward to seeing this molecule progress to a later stage clinical study."

After a single dose in a Phase 1 clinical study, ARO-PNPLA3 achieved encouraging results, including:

 A dose-dependent mean reduction in liver fat of up to 40% in patients homozygous for the I148M mutation

- No apparent treatment emergent increases in triglycerides or LDL-cholesterol
- Safety and tolerability
 - No clinically meaningful changes or trends in any safety parameters
 - No tolerability issues reported
 - o Mostly mild adverse events (AE) reported
 - No serious or severe AEs
 - No AEs leading to treatment or study discontinuation

"We are impressed by the initial Phase 1 clinical data for JNJ-75220795, now called ARO-PNPLA3. We understand that Janssen is undergoing a strategic R&D portfolio review and subsequently advised us of their decision to return full rights to this promising NASH candidate back to Arrowhead," said Christopher Anzalone, Ph.D., Arrowhead's president and CEO. "ARO-PNPLA3 is a potentially complementary addition to our growing pipeline of RNAi candidates in the cardiometabolic space. We look forward to the availability of additional data on ARO-PNPLA3 as we design a Phase 2 study and assess options for communicating full Phase 1 results."

NASH is a subgroup of non-alcoholic fatty liver disease (NAFLD) in which hepatic cell injury and inflammation has developed over background steatosis. Although there are many investigational drugs in clinical study, there are no drugs specifically approved for the treatment of NASH. NAFLD is the most common chronic liver disease with a worldwide prevalence of 20-30%. Up to 30% of those with NAFLD will go on to develop NASH which can progress to liver cirrhosis. The rising prevalence of NASH presents a significant health burden in many developed countries.^{1,2}

The I148M genetic variant in the PNPLA3 gene is involved with the underlying pathophysiology and is a known risk factor for hepatic steatosis, steatohepatitis, elevated plasma liver enzyme levels, hepatic fibrosis and cirrhosis. There are approximately 12.5 million PNPLA3 I148M homozygotes in China, Japan, Germany, Italy, the UK, and the U.S. with approximately 4.5 million in the U.S. alone.³

The Phase 1 study (NCT04844450) is a double-blind, placebo-controlled, randomized, multipart, single and multiple ascending dose study to investigate the safety, tolerability, pharmacokinetics, and pharmacodynamics of subcutaneously administered JNJ-75220795 in up 112 participants with certain genetic predisposition to NAFLD and the presence of liver steatosis determined at screening.

About Arrowhead/Janssen Research Collaboration

Arrowhead received written notice from Janssen that they have terminated their rights to JNJ-75220795, now called ARO-PNPLA3, under the October 2018 research collaboration and option agreement. The companies are working to transition the program and associated data to Arrowhead.

About Arrowhead Pharmaceuticals

Arrowhead Pharmaceuticals develops medicines that treat intractable diseases by silencing the genes that cause them. Using a broad portfolio of RNA chemistries and efficient modes of delivery, Arrowhead therapies trigger the RNA interference mechanism to induce rapid, deep, and durable knockdown of target genes. RNA interference, or RNAi, is a mechanism present in living cells that inhibits the expression of a specific gene, thereby affecting the production of a specific protein. Arrowhead's RNAi-based therapeutics leverage this natural pathway of gene silencing.

For more information, please visit www.arrowheadpharma.com, or follow us on Twitter @ArrowheadPharma. To be added to the Company's email list and receive news directly, please visit http://ir.arrowheadpharma.com/email-alerts.

Safe Harbor Statement under the Private Securities Litigation Reform Act:

This news release contains forward-looking statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995. Any statements contained in this release except for historical information may be deemed to be forward-looking statements. Without limiting the generality of the foregoing, words such as "may," "will," "expect," "believe," "anticipate," "hope," "intend," "plan," "project," "could," "estimate," or "continue" are intended to identify such forward-looking statements. In addition, any statements that refer to projections of our future financial performance, trends in our business, expectations for our product pipeline or product candidates, including anticipated regulatory submissions and clinical program results, prospects or benefits of our collaborations with other companies, or other characterizations of future events or circumstances are forward-looking statements. These statements are based upon our current expectations and speak only as of the date hereof. Our actual results may differ materially and adversely from those expressed in any forward-looking statements as a result of numerous factors and uncertainties, including the impact of the ongoing COVID-19 pandemic on our business, the safety and efficacy of our product candidates, decisions of regulatory authorities and the timing thereof, the duration and impact of regulatory delays in our clinical programs, our ability to finance our operations, the likelihood and timing of the receipt of future milestone and licensing fees, the future success of our scientific studies, our ability to successfully develop and commercialize drug candidates, the timing for starting and completing clinical trials, rapid technological change in our markets, the enforcement of our intellectual property rights, and the other risks and uncertainties described in our most recent Annual Report on Form 10-K, subsequent Quarterly Reports on Form 10-Q and other documents filed with the Securities and Exchange Commission from time to time. We assume no obligation to update or revise forward-looking statements to reflect new events or circumstances.

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Source: Arrowhead Pharmaceuticals, Inc.

¹ Ekstedt, M., Nasr, P. & Kechagias, S. Curr Hepatology Rep. 2017;16: 391.

² Vernon, G, Baranova, A. and Younossi, Z. M. Systematic review: the epidemiology and natural history of non-alcoholic fatty liver disease and non-alcoholic steatohepatitis in adults. Alimentary Pharmacology & Therapeutics, 2011;34:274-285.

³ Carlsson B, Lindén D, Brolén G, et al. Review article: the emerging role of genetics in precision medicine for patients with non-alcoholic steatohepatitis. Aliment Pharmacol Ther. 2020;00:1–16. https://doi.org/10.1111/apt.15738