# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

# FORM 8-K

# CURRENT REPORT Pursuant to Section 13 or 15(d)

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

Date of Report (Date of earliest event reported): November 12, 2024 (November 12, 2024)

# **Ensysce Biosciences, Inc.**

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization) 001-38306 (Commission File Number) 82-2755287 (I.R.S. Employer Identification Number)

7946 Ivanhoe Avenue, Suite 201 La Jolla, California (Address of principal executive offices)

92037 (Zip Code)

(858) 263-4196 Registrant's telephone number, including area code

N/A

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation to 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))

Securities 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 \$0.0001 per share ENSC The Nasdaq Stock Market LLC

Emerging growth company □

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.  $\Box$ 

#### Item 2.02. Results of Operations and Financial Condition.

On November 12, 2024, Ensysce Biosciences, Inc. (the "Company") issued a press release announcing its financial results for the fiscal quarter ended September 30, 2024. A copy of the press release is included as Exhibit 99.1 to this Current Report on Form 8-K.

The information in this Item 2.02, including Exhibit 99.1 attached hereto, shall not be deemed to be "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, nor will they be deemed to be incorporated by reference in any filing under the Securities Act of 1933, as amended, except as will be expressly set forth by specific reference in such a filing.

#### Forward-Looking Statements

This report contains certain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These statements may be made directly in this report. Some of the forward-looking statements can be identified by the use of forwardlooking words. Statements that are not historical in nature, including the words "anticipate," "expect," "suggests," "plan," "believe," "intend," "estimates," "targets," "projects," "should," "could," "would," "may," "will," "forecast" and other similar expressions are intended to identify forward-looking statements. All forward-looking statements are based upon management estimates and forecasts and reflect the views, assumptions, expectations, and opinions of the Company as of the date of this report, and may include, without limitation, changes in general economic and political conditions, all of which are accordingly subject to change. Any such estimates, assumptions, expectations, forecasts, views or opinions set forth in this report constitute the Company's judgments and should be regarded as indicative, preliminary and for illustrative purposes only. The forward-looking statements and projections contained in this report are subject to a number of factors, risks and uncertainties, some of which are not currently known to the Company, that may cause the Company's actual results, performance or financial condition to be materially different from the expectations of future results, performance of financial condition. Although such forward-looking statements have been made in good faith and are based on assumptions that the Company believes to be reasonable, there is no assurance that the expected results will be achieved. The Company's actual results may differ materially from the results discussed in forward-looking statements. Additional information on factors that may cause actual results and the Company's performance to differ materially is included in the Company's filings with the Securities and Exchange Commission (the "SEC"). Copies of such filings with the SEC are available publicly on the SEC's website at www.sec.gov or may be obtained by contacting the Company. Readers are cautioned not to place undue reliance upon any forward-looking statements, which speak only as of the date made. These forward-looking statements are made only as of the date hereof, and the Company does not undertake any obligations to update or revise the forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

#### Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit Number	Description
99.1	Press Release, dated November 12, 2024
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

## SIGNATURE

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

Dated: November 12, 2024 Ensysce Biosciences, Inc.

By: /s/Lynn Kirkpatrick

Name: Dr. Lynn Kirkpatrick
Title: President and Chief Executive Officer

(Principal Executive Officer)

#### **Ensysce Biosciences Reports Third Quarter 2024 Financial Results**

Awarded \$14 Million Multi-Year NIH Grant and Initiated Second Clinical Trial for Breakthrough Therapy PF614-MPAR

Submitted Pivotal PF614 Phase 3 Protocol to the FDA for Review

SAN DIEGO, CA / November 12, 2024 / Ensysce Biosciences, Inc. (NASDAQ: ENSC) ("Ensysce" or the "Company"), a clinical-stage pharmaceutical company developing innovative solutions for severe pain relief while reducing the potential for opioid abuse and overdose, today reported financial and operational results for the third quarter ended September 30, 2024.

Dr. Lynn Kirkpatrick, Chief Executive Officer of Ensysce, commented, "Our team has made significant progress in the third quarter, and we have line of sight to meaningful clinical initiatives to close out the year. The highlight of the third quarter was NIH's recognition of the potential value provided by our overdose protection technology MPAR®, by awarding Ensysce with a \$14 million multi-year grant to further the clinical development of PF614-MPAR. The support from the NIH allows the completion of a second Phase 1b trial, PF614-MPAR-102. We believe the data from this study will cement PF614-MPAR as the first opioid with oral overdose protection, a game-changer for those suffering with severe pain while mitigating potential abuse and overdose."

Dr. Kirkpatrick continued, "We also built on FDA feedback from our End of Phase 2 meeting in February to complete our Phase 3 protocol and have submitted it to the FDA. We expect FDA feedback by the end of November to allow us to complete plans to execute the study over the coming year. Our August financing transaction that raised \$5 million in gross proceeds allows us to advance to clinical site selection for our pivotal Phase 3 trial for PF614, and the \$14 million MPAR® grant has allowed us to rapidly initiate our second trial for PF614-MPAR. We anticipate the results from these clinical studies will continue to build on our prior positive safety data to bring our innovative and premium pain products to market. Lastly, we are applying our TAAP and MPAR technology to our opioid use disorder program and look forward to moving the lead agent into clinical development in the coming years."

## TAAP<sup>TM</sup> (Opioid Abuse Deterrent Program) Update

Our lead product, PF614, is a Trypsin-Activated Abuse Protection (TAAP<sup>TM</sup>) extended-release oxycodone and a potential "next generation" analgesic for severe pain. The Company's TAAP<sup>TM</sup> technology is designed to control release, be highly resistant to tampering, and reduce abuse through a unique chemical modification. PF614's TAAP<sup>TM</sup> modification makes it inactive until it is swallowed and exposed to the body's own trypsin in the small intestine to activate or "switch on" to release oxycodone.

During the third quarter, the Company submitted to the FDA for regulatory review the protocol and statistical analysis plan for its anticipated final Phase 3 study, PF614-301. The study is entitled "A Multicenter, Randomized, Double-Blind, Placebo-and Active-Controlled Study to Evaluate the Efficacy and Safety of PF614 for the Treatment of Moderate to Severe Pain after Abdominoplasty".

#### MPAR® (Opioid Abuse Deterrent and Overdose Protection Program) Update

PF614-MPAR, designed to treat severe pain with added oral overdose protection, is a combination product of the TAAP<sup>TM</sup> prodrug PF614 with a trypsin inhibitor. MPAR® (Multi-Pill Abuse Resistance) reduces or "switches off" the release of the opioid only in an overdose situation, providing an additional layer of protection to Ensysce's TAAP<sup>TM</sup> medications. The clinical data from the first clinical trial, PF614-101, demonstrated that the MPAR® technology reduces release and absorption of oxycodone from PF614 when consumed in more than a prescribed dose, leading to the FDA's Breakthrough Therapy designation in January of this year.

During the third quarter, the Company received approval from the Investigational Review Board ("IRB") of the PF614-MPAR-102 protocol, 'A Single and Multiple Dose Study to Evaluate the Pharmacokinetics of Oxycodone and PF614 when PF614 capsule is Co-Administered with Nafamostat as a combination Immediate Release solution and Extended-Release Capsule Formulation in Healthy Subjects.' The Site Initiation Visit has been undertaken and the study is on track to initiate subject dosing this quarter. To execute this study, Ensysce has continued its collaboration with Quotient Sciences to use their Translational Pharmaceutics® platform to perfect the drug product. As reported in August, the Company received a \$14 million multi-year grant from the NIH, National Institute of Drug Abuse (NIDA) to fund this clinical study as well as the necessary non-clinical studies to support an NDA (New Drug Application) for PF614-MPAR.

#### Opioid Use Disorder (OUD) Program Update

The Company recently announced the selection of its lead OUD drug candidate PF9001 that has been designed using Ensysce's TAAP<sup>TM</sup> platform. The intent of the program is to reduce both the abuse profile and the cardiovascular side effects associated with traditional methadone OUD treatments. The program is finalizing required studies supported by a multi-year Helping to End Addiction Long-Term (HEAL) award of up to \$15 million granted by the NIH and NIDA and anticipates advancing to Investigational New Drug (IND) enabling studies in the coming year.

#### Q3 2024 Financial Results

Cash – Cash and cash equivalents were \$4.2 million as of September 30, 2024, compared to \$1.1 million as of December 31, 2023. A key driver for the increase in cash was cumulative net proceeds of \$8.5 million from equity financings in February and August 2024.

Stockholders' Equity – Stockholders' equity was \$6.6 million as of September 30, 2024, a level compliant with the \$2.5 million stockholders' equity requirement set forth in Nasdaq Listing Rule 5550(b)(1).

Federal Grants – Funding under federal grants totaled \$3.4 million for the third quarter of 2024 compared to \$0.4 million in the comparable year ago quarter. The increase is due to the timing of research activities eligible for funding, with increased activities under the OUD grant following the selection of a lead drug candidate in June. Funding under the current phase of the OUD grant was completed in August 2024. Also contributing to the increase is the recently awarded MPAR grant, with payments for clinical activities for PF614-MPAR initiated during the quarter. With the completion of the OUD grant, funding under federal grants is expected to decline in coming quarters from the level of the third quarter of 2024.

Research & Development Expenses – R&D expenses were \$1.7 million for the third quarter of 2024 compared to \$1.9 million for the same period in 2023. The decrease of \$0.2 million was primarily the result of reduced external research and development costs related to clinical and pre-clinical programs for PF614 in the 2024 period. Increased activities on the OUD and MPAR programs are expected to result in higher research and development expenses in coming quarters.

General & Administrative Expenses – G&A expenses were \$1.1 million in the third quarter of 2024, compared to \$1.2 million for the third quarter of 2023, a slight decrease of \$0.1 million. G&A expenses are expected to approximate current levels in the coming quarters.

Other Income (Expense) – Total other income (expense), net, was consistent with income of \$17,023 for the third quarter of 2024 compared to income of \$16,508 for the same period of 2023.

Net Income (Loss) – Net income attributable to common stockholders for the third quarter of 2024 was \$0.7 million compared to a net loss of \$2.7 million for the third quarter of 2023. The Company recorded net income in the third quarter due to the timing of federal grant funding received, with the completion of funding under the OUD grant and the start of funding under the MPAR grant both occurring during the quarter. With only the MPAR grant moving forward, net income for the third quarter is expected to be a one-time event and we do not anticipate net income in coming quarters. As a clinical stage biotech company, our continued research and development efforts toward regulatory approvals for our product candidates are expected to result in losses for the foreseeable future.

#### **About Ensysce Biosciences**

Ensysce Biosciences is a clinical-stage company using its proprietary technology platforms to develop safer prescription drugs. Leveraging its Trypsin-Activated Abuse Protection (TAAP<sup>TM</sup>) and Multi-Pill Abuse Resistance (MPAR®) platforms, the Company is developing unique, tamper-proof treatment options for pain that minimize the risk of both drug abuse and overdose. Ensysce's products are anticipated to provide safer options to treat patients suffering from severe pain and assist in preventing deaths caused by medication abuse. The platforms are covered by an extensive worldwide intellectual property portfolio for a wide array of prescription drug compositions. For more information, please visit <a href="https://www.ensysce.com">www.ensysce.com</a>.

#### **Definitions**

TAAP<sup>TM</sup>: trypsin activated abuse protection - designed to protect against prescription drug abuse.

MPAR®: multi-pill abuse resistance - designed to protect against abuse and accidental overdose.

#### Forward-Looking Statements

Statements contained in this press release that are not purely historical may be deemed to be forward-looking statements for the purposes of the safe harbor provisions under The Private Securities Litigation Reform Act of 1995 and other federal securities laws. Without limiting the foregoing, the use of words such as "may," "intends," "can," "might," "will," "expect," "plan," "possible," "believe" and other similar expressions are intended to identify forward-looking statements. The product candidates discussed are in clinic and not approved and there can be no assurance that the clinical programs will be successful in demonstrating safety and/or efficacy, that Ensysce will not encounter problems or delays in clinical development, or that any product candidate will ever receive regulatory approval or be successfully commercialized. All forward-looking statements are based on estimates and assumptions by Ensysce's management that, although Ensysce believes to be reasonable, are inherently uncertain. All forward-looking statements are subject to risks and uncertainties that may cause actual results to differ materially from those that Ensysce expected. In addition, Ensysce's business is subject to additional risks and uncertainties, including among others, possible NASDAQ delisting, the initiation and conduct of preclinical studies and clinical trials; the timing and availability of data from preclinical studies and clinical trials; expectations for regulatory submissions and approvals; potential safety concerns related to, or efficacy of, Ensysce's product candidates; the availability or commercial potential of product candidates; the ability of Ensysce to fund its continued operations, including its planned clinical trials; the dilutive effect of stock issuances from our fundraising; and Ensysce's and its partners' ability to perform under their license, collaboration and manufacturing arrangements. These statements are also subject to a number of material risks and uncertainties that are described in Ensysce's

#### **Ensysce Biosciences Company Contact:**

Lynn Kirkpatrick, Ph.D. Chief Executive Officer (858) 263-4196

#### **Ensysce Biosciences Investor Relations Contact:**

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# Ensysce Biosciences, Inc. Condensed Consolidated Statements of Operations (Unaudited)

	Three Months Ended September 30,			Nine Months Ended September 30,				
		2024		2023		2024		2023
Federal grants	\$	3,418,853	\$	435,380	\$	3,906,372	\$	1,715,488
Operating expenses:								
Research and development		1,690,674		1,914,970		3,416,807		5,354,713
General and administrative		1,083,433		1,227,724		3,643,223		3,923,277
Total operating expenses		2,774,107	_	3,142,694		7,060,030		9,277,990
Income (loss) from operations		644,746		(2,707,314)		(3,153,658)		(7,562,502)
Total other income (expense), net		17,023		16,508		(1,268,929)		440,588
Net income (loss)	\$	661,769	\$	(2,690,806)	\$	(4,422,587)	\$	(7,121,914)
Adjustments to net income (loss)		_		1,235		(216)		198
Net income (loss) attributable to common stockholders	\$	661,769	\$	(2,689,571)	\$	(4,422,803)	\$	(7,121,716)
Net income (loss) per share attributable to common stockholders,			_		_			
basic and diluted	\$	0.07	\$	(0.87)	\$	(0.57)	\$	(3.32)

# Ensysce Biosciences, Inc. Condensed Consolidated Statements of Cash Flows (Unaudited)

	Nine Mont	Nine Months Ended September 30,			
	2	024	2023		
Net cash used in operating activities	\$ (6,738)	<del>(610)</del> \$	(8,978,107)		
Net cash provided by financing activities	9,768	598	7,294,786		
Change in cash and cash equivalents	3,029	988	(1,683,321)		
Cash and cash equivalents at beginning of period	1,123	604	3,147,702		
Cash and cash equivalents at end of period	\$ 4,153	592 \$	1,464,381		

## Ensysce Biosciences, Inc. Condensed Consolidated Balance Sheets (Unaudited)

	(Onauuittu)					
		September 30, 2024		December 31, 2023		
Assets						
Current assets:						
Cash and cash equivalents		\$	4,153,592	\$	1,123,604	
Prepaid expenses and other current assets			4,936,915		1,165,264	
Total current assets			9,090,507		2,288,868	
Other assets			294,217		419,217	
Total assets		\$	9,384,724	\$	2,708,085	
Liabilities and stockholders' equity (deficit)						
Current liabilities:						
Accounts payable		\$	1,967,573	\$	1,936,007	
Accrued expenses and other liabilities			447,035		542,260	
Notes payable and accrued interest			387,176		854,697	
Total current liabilities			2,801,784		3,332,964	
Long-term liabilities			3,213		26,388	
Total liabilities			2,804,997	'	3,359,352	
Stockholders' equity (deficit)			6,579,727		(651,267)	
Total liabilities and stockholders' equity (deficit)		\$	9,384,724	\$	2,708,085	