# 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): March 30, 2023 (March 30, 2023)

## **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.						

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

On March 30, 2023, Ensysce Biosciences, Inc. (the "Company") issued a press release announcing its financial results for the fiscal quarter and year ended December 31, 2022. 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 forward-looking 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 <a href="https://www.sec.gov">www.sec.gov</a> 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 March 30, 2023.
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: March 30, 2023 Ensysce Biosciences, Inc.

By: /s/ Lynn Kirkpatrick
Name: Dr. Lynn Kirkpatrick

Title: President and Chief Executive Officer (Principal Executive Officer)

#### Ensysce Biosciences Reports Fourth Quarter and Full Year 2022 Financial Results

~ Corporate Update Call to be Held Tuesday, April 11, 2023 ~

SAN DIEGO, CA, March 30, 2023 — Ensysce Biosciences, Inc. ("Ensysce" or the "Company") (NASDAQ:ENSC), a clinical-stage biotech company applying transformative chemistry to improve prescription drug safety, today reported financial results for the fourth quarter and full year of 2022.

Dr. Lynn Kirkpatrick, Chief Executive Officer of Ensysce, commented, "Our focus remains on execution and advancing clinical development plans for our programs that provide strong pain relief using our PF614 and PF614-MPAR drug products. This has been evident in the recently released news regarding completion of enrollment of our first PF614-MPAR study and completion of the clinical stage of two human abuse potential studies for PF614. These studies add to the clinical support demonstrating that Ensysce has a novel approach for delivering effective pain management and safely alleviating severe pain in patients requiring an opioid analgesic. These recent accomplishments move us closer to our Phase 3 plans and toward bringing what we believe is the 'Next Generation of Analgesia' for severe pain to commercialization."

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

Our lead program, PF614 is a "Trypsin-Activated Abuse Protection" (TAAP<sup>TM</sup>) extended-release oxycodone. 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 that is activated by trypsin. The achievements highlighted below advance the company toward Phase 3 clinical evaluation.

- On February 28, 2023, the Company announced the database lock for the oral Human Abuse Potential (HAP) study of PF614. With the database lock, no further change to the trial data is permissible.
- On January 4, 2023, the Company announced that it had successfully completed the clinical portion of study PF614-104, 'A Randomized, Double-Blind, Placebo- and Active-Controlled, Crossover Study to Evaluate the Oral Abuse Potential of PF614 Compared with Oxycodone Immediate-Release Tablets, and Placebo in Non-Dependent Recreational Opioid Users' (ClinicalTrials.gov: NCT05571345) conducted by Dr. Vince Clinical Research.
- On November 14, 2022, the Company announced that it received written guidance from the FDA that an acute pain indication may be appropriate for the Company's lead Trypsin Activated Abuse Protection (TAAPTM) product, PF614.
- On October 31, 2022, the Company announced positive topline results from an intranasal human abuse potential (HAP) study for PF614 showing inhalation of PF614 did not produce the 'drug liking' effects of crushed oxycodone. Ensysce's TAAP TM technology is designed to limit activation to oral administration, be highly resistant to tampering to reduce abuse.

#### MPAR<sup>TM</sup> (Opioid Abuse Deterrent and Overdose Protection Program) Updates

PF614-MPAR<sup>TM</sup> is a combination abuse-protected product designed to overcome prescription drug overdose. MPAR<sup>TM</sup> (Multi-Pill Abuse Resistance) reduces the release of the opioid in an overdose situation, providing the additional layer of protection to Ensysce's TAAP<sup>TM</sup> pain medications. The select achievements outlined below demonstrate how Ensysce has progressed, what we believe is the first prescription drug overdose protection technology to be developed.

- On March 22, 2023, the Company announced the completion of enrollment in the final stage of the Phase 1 study, PF614-MPAR-101. This study was conducted by Dr. Maria Bermudez MD, at Quotient Sciences, Miami, Florida.
- On December 19, 2022, the Company announced data from the initial stage of PF614-MPAR-101 successfully demonstrating the overdose protection qualities of its drug product, PF614-MPAR.
- On December 5, 2022, the Company announced that it had completed the clinical portion of the initial stage of PF614-MPAR-101, entitled 'Single-Dose Study to Evaluate the Pharmacokinetics of oxycodone and PF614, when PF614 Solution is Co-Administered with Nafamostat, as an Immediate-Release Solution and/or Extended-Release (ER) Capsule Formulations in Healthy Subjects', conducted by Dr. Maria Bermudez MD, at Quotient Sciences, Miami, Florida.

#### **Financial Results**

- Cash Cash and cash equivalents were \$3.1 million as of December 31, 2022, as compared to \$4.5 million as of September 30, 2022, and \$12.3 million as of December 31, 2021. Subsequent to year-end, the Company completed a \$3.0 million registered direct offering for the sale of 3,571,431 shares of the Company's common stock at a purchase price of \$0.84 per share.
- Federal Grants Funding under federal grants was \$1.4 million for the fourth quarter of 2022 compared to \$1.6 million in the comparable year ago quarter. For the full year 2022, funding from federal grants was \$2.5 million compared to \$3.5 million for full year 2021. The differences are primarily related to both pre-clinical and clinical activities for the MPAR<sup>TM</sup> program.
- Research & Development Expenses R&D expenses were \$6.4 million for the fourth quarter of 2022 compared to \$2.2 million for the same period in 2021 and \$19.8 million for the full year of 2022 compared to \$4.7 million for the full year of 2021. The increases were primarily the result of increased external research and development costs related to the clinical programs for PF614 and PF614-MPAR.
- General & Administrative Expenses G&A expenses were \$1.2 million for the fourth quarter of 2022 compared to \$1.5 million for the same period of 2021 and \$6.9 million for the full year of 2022 compared to \$18.7 million for the full year of 2021. The decrease for the full year period was primarily driven by a one-time \$11.6 million non-cash expense related to warrants issued under a share subscription facility.
- Other Income (Expense) Total other income (expense), net was income of \$0.7 million for the fourth quarter of 2022 compared to expense of \$8.0 million for the same period of 2021. For the full year periods, total other income (expense), net was income of \$0.0 million in 2022 compared to expense of \$9.3 million in 2021. The change in other expenses is primarily due to non-cash fair value adjustments for convertible notes and warrants.
- Net Loss Net loss for the fourth quarter of 2022 was \$5.5 million compared to \$10.0 million for the fourth quarter of 2021. For the full year of 2022, net loss was \$24.2 million compared to \$29.1 million for the full year of 2021. 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.

As previously announced, CEO, Dr. Lynn Kirkpatrick, CFO, Dave Humphrey, and CMO, Dr. William Schmidt, will host a conference call on Tuesday, April 11, 2023, at 11:00am ET to provide a corporate update and review the recently released results from the oral HAP study of PF614. The call will conclude with Q&A from participants. An accompanying presentation will be posted prior to the call to the Company's investor relations website.

Date: Tuesday, April 11, 2023

Time: 11:00am ET

U.S. Dial-in: 1-877-407-0792 International Dial-in: 1-201-689-8263 Webcast: <u>ENSC Corporate Update Call</u>

Please dial in at least 10 minutes before the start of the call to ensure timely participation. A playback of the call will be available through Tuesday, May 9, 2023. To listen, call 1-844-512-2921 within the United States and Canada or 1-412-317-6671 when calling internationally. Please use the replay pin number 13737179.

# Ensysce Biosciences, Inc. Condensed Consolidated Statements of Operations

	Three Months Ended December 31,		Year Ended December 31,				
		2022	2021		2022		2021
Federal grants	\$	1,433,463	\$ 1,635,292	\$	2,523,383	\$	3,531,199
Operating expenses:							
Research and development		6,441,927	2,187,850		19,835,875		4,690,082
General and administrative		1,192,322	1,454,187		6,909,603		18,711,548
Total operating expenses		7,634,249	3,642,037		26,745,478		23,401,630
Loss from operations		(6,200,786)	(2,006,745)		(24,222,095)		(19,870,431)
Total other income (expense), net		722,710	(8,030,379)		14,410		(9,275,470)
Net income (loss)	\$	(5,478,076)	\$ (10,037,124)	\$	(24,207,685)	\$	(29,145,901)
Adjustments to net income (loss)		(43,832)	(802,926)		(877,811)		(740,950)
Net income (loss) attributable to common stockholders	\$	(5,521,908)	\$ (10,840,050)	\$	(25,085,496)	\$	(29,886,851)
Net income (loss) per share attributable to common stockholders, basic and diluted	\$	(1.52)	\$ (8.93)	\$	(11.62)	\$	(29.64)

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

		Year Ended December 31,			
		2022		2021	
Net cash used in operating activities	\$	(17,887,439)	\$	(8,242,177)	
Net cash provided by investing activities		4,500		_	
Net cash provided by financing activities		8,765,905		20,312,699	
Change in cash and cash equivalents	<u> </u>	(9,117,034)		12,070,522	
Cash and cash equivalents at beginning of period		12,264,736		194,214	
Cash and cash equivalents at end of period	\$	3,147,702	\$	12,264,736	

# Ensysce Biosciences, Inc. Condensed Consolidated Balance Sheets

	December 31, 2022		December 31, 2021		
Assets					
Current assets:					
Cash and cash equivalents	\$	3,147,702	\$	12,264,736	
Prepaid expenses and other current assets		2,151,467		3,397,857	
Total current assets		5,299,169		15,662,593	
Other assets		585,883		754,756	
Total assets	\$	5,885,052	\$	16,417,349	
Liabilities and stockholders' deficit					
Current liabilities:					
Accounts payable	\$	2,943,791	\$	301,104	
Accrued expenses and other liabilities		2,253,809		3,432,407	
Notes payable and accrued interest		4,266,610		12,748,155	
Total current liabilities		9,464,210		16,481,666	
Long-term liabilities		450,494		8,093,741	
Total liabilities	-	9,914,704		24,575,407	
Stockholders' deficit		(4,029,652)		(8,158,058)	
Total liabilities and stockholders' equity	\$	5,885,052	\$	16,417,349	

### **About Ensysce Biosciences**

Ensysce Biosciences is a clinical-stage biotech company using its proprietary technology platforms to develop safer prescription drugs. Leveraging TAAP<sup>TM</sup> and MPAR<sup>TM</sup>, the Company is in the process of developing a unique, tamper-proof treatment option for pain that minimizes the risk of both drug abuse and overdoses. 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>.

#### 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, 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 most recent annual report

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

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

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Source: Ensysce Biosciences Inc.