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 31, 2022 (March 31, 2022)

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

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:								
Symbol(s) Name of each exchange on which registered NSC The Nasdaq Stock Market LLC SCW OTC Pink Open Market								
elected not to use the extended transition period for complying with any new or revised financial								
eo FR Ex SiSi								

Item 2.02. Results of Operations and Financial Condition.

On March 31, 2021, Ensysce Biosciences, Inc. (the "Company") issued a press release announcing its financial results for the fiscal quarter and year ended December 31, 2021. 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, including as a result of COVID-19, 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 March 31, 2022.
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 31, 2022 Ensysce Biosciences, Inc.

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

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

Ensysce Biosciences Provides Business Update and Reports Fourth Quarter and Full Year 2021 Financial Results

~ Corporate Update Call to be Held Wednesday, April 6, 2022 ~

SAN DIEGO, March 31, 2022 — Ensysce Biosciences, Inc. ("Ensysce" or the "Company") (NASDAQ: ENSC, OTC: ENSCW), a clinical-stage biotech company applying transformative chemistry to improve prescription drug safety and performance with a current focus on reducing abuse and overdose, today reported financial results for the fourth quarter and full year 2021.

Dr. Lynn Kirkpatrick, Chief Executive Officer of Ensysce, commented, "Following the successful completion of our convertible note financing of \$15 million, providing the necessary funds to advance our clinical trials, the year concluded with an exceptional Company milestone as the first patients were enrolled in the Phase 1 study of PF614-MPARTM, the first product utilizing our MPARTM platform designed to reduce drug overdose.

"Subsequently, we initiated and recently concluded, the final dosing in the Bioequivalence (BE) trial of our TAAPTM opioid, PF614. We believe that the BE study data, expected to be available in the second quarter, will position PF614 as our first commercial candidate, fueling our ability to bring a unique pipeline of products to the market aligned with our mission of helping millions suffering with severe pain."

Dr. Kirkpatrick concluded, "Regarding our financial results, it's important to note that our net loss for the full year consisted of significant non-cash expenses, including \$17.9 million related to fair value accounting for warrants and convertible notes. Cash used in operating activities during 2021 totaled \$8.2 million."

TAAPTM (Opioid Abuse Deterrent Program) Updates

- On March 21, 2022, the Company concluded the clinical treatment of the Bioequivalence (BE) portion of the PF614-102 trial, which is studying the novel TAAPTM opioid, PF614. This followed the successful completion of the multi-ascending twice daily dosing part of the study in December 2021.
- BE data from the PF614-102 study is expected to be available by the end of the second quarter 2022. The Company believes that the data will support the 505(b)(2) regulatory path for clinical development of PF614, an abbreviated pathway to FDA approval.
- Human abuse liability (HAL) studies to determine labeling claims for PF614 are scheduled to initiate in the second quarter of 2022.
- PF614 is designed using the abuse protective platform TAAPTM, a chemical modification which inactivates the active ingredient in Ensysce's opioid products, including PF614, until swallowed and exposed to the enzyme trypsin in the digestive system. Our TAAPTM platform, which we believe provides abuse protection and resistance to manipulation and other forms of recreational drug abuse, should also control the rate of release of the active opioid. The 102 study builds on the safety and pharmacokinetic results of the initial Phase 1 study and is designed to improve the understanding of how PF614 compares to currently available commercial products.

MPARTM (Opioid Abuse Deterrent and Overdose Protection Program) Updates

- PF614-MPAR-101 Phase 1 study initiated dosing of PF614 in combination with trypsin inhibitor nafamostat and the first subjects successfully completed administration of PF614 followed by PF614 with nafamostat.
- The study is continuing with additional subjects enrolling to receive PF614 and nafamostat in various combinations through the third quarter of 2022. Safety and pharmacokinetic results are expected by the end of the third quarter 2022.

Financial Results

- Cash Cash and cash equivalents were \$12.3 million as of December 31, 2021, as compared to \$0.2 million for the same period in 2020. In the fourth quarter of 2021, Ensystee received funding of \$10 million under the convertible note financing, bringing the total cash provided by financing activities in fiscal year 2021 to \$20.3 million. Cash used in operating activities in 2021 totaled \$8.2 million.
- Federal Grants Funding under federal grants was \$1.6 million for the fourth quarter of 2021 compared to \$0.4 million in the comparable year ago quarter. For the full year 2021, funding under federal grants was \$3.5 million compared to \$3.9 million for the same period in 2020. The Company successfully increased clinical development activity with our PF614-MPARTM overdose protection product, contributing to an increase in federal grant funding in the fourth quarter of 2021.
- Research & Development Expenses R&D expenses were \$2.2 million for the fourth quarter of 2021 compared to \$1.3 million in the fourth quarter of 2020 and \$4.7 million for the year ended December 31, 2021, compared to \$4.4 million for the same period in 2020. The increases for both the quarter and full year were primarily the result of increased external research and development costs related to the clinical programs for PF614 and PF614-MPARTM.
- General & Administrative Expenses G&A expenses were \$1.5 million for the fourth quarter of 2021 and \$0.3 million for the fourth quarter 2020 and \$18.7 million for the year ended December 31, 2021, compared to \$1.2 million for December 31, 2020. The quarterly increase reflects increased costs from operating as a public company in the 2021 period. The full year increase was primarily driven by \$11.6 million of non-cash expense for warrants issued in July 2021 related to a \$60.0 million share subscription facility. Also contributing to the increase was \$1.3 million of non-cash expense for consultants and \$1.1 million expense for commitment fees for the share subscription facility.
- Other Income (Expense) Total other income (expense), net was expense of \$8.0 million in the fourth quarter of 2021 and income of \$1.1 million in the fourth quarter of 2020. For the full year periods, total other income (expense), net was expense of \$9.3 million in 2021 and income of \$1.5 million in 2020. The increase in net expenses in the 2021 periods results primarily from non-cash fair value adjustments for the convertible notes and related warrants issued in late 2021, which totaled \$6.7 million in the fourth quarter of 2021 and \$6.3 million for fiscal year 2021.
- Net Income (Loss) Net loss for the fourth quarter was \$10.0 million compared to net income of \$18,340 for the comparable year ago period. Net loss was \$29.1 million for the year ended December 31, 2021, compared to net loss of \$0.2 million for the same period in 2020. As noted above, significant components of the net loss are non-cash expenses. For the fourth quarter, \$6.7 million of the \$10.0 million net loss was for non-cash fair value adjustments related to the convertible notes issued in September and November 2021. For fiscal year 2021, \$17.9 million of the \$29.1 million net loss resulted from non-cash expenses for fair value of warrants and convertible notes. As we are a clinical stage biotech company, our research and development of, and regulatory approvals for, our product candidates continues, resulting in expected losses for the foreseeable future.

Additional Company Highlights

- Announced the appointment of Dr. Linda Pestano as Chief Development Officer on October 15, 2021, to lead the non-clinical drug development activities.
- The Company further strengthened its Board of Directors with the appointment of Ms. Lee Rauch on February 28, 2022.
- Completed a \$15 million convertible note financing, receiving the second tranche of \$10 million on November 5, 2021, after receiving the first tranche of \$5 million on September 24, 2021.

Corporate Update Conference Call

Management will host a corporate update conference call on Wednesday, April 6, 2022, at 11:00 a.m. Eastern time. The call will conclude with Q&A from participants.

 Date:
 Wednesday, April 6, 2022

 Time:
 11:00 a.m. Eastern time

 Dial-in:
 1-877-407-0792

 International Dial-in:
 1-201-689-8263

 Conference Code:
 13727989

Webcast: <u>ENSC Corporate Update Conference 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 May 6, 2022 on Ensysce's Investor Relations website at<u>ir.ensysce.com</u>.

Ensysce Biosciences, Inc. Condensed Consolidated Statements of Operations

	Three Months Ended December 31,			Year Ended December 31,				
		2021		2020		2021		2020
Federal grants	\$	1,635,292	\$	416,489	\$	3,531,199	\$	3,931,209
Operating expenses:								
Research and development		2,187,850		1,253,372		4,690,082		4,389,579
General and administrative		1,454,187		256,447		18,711,548		1,154,917
Total operating expenses		3,642,037		1,509,819		23,401,630		5,544,496
Loss from operations		(2,006,745)		(1,093,330)		(19,870,431)		(1,613,287)
Total other income (expense), net		(8,030,379)		1,111,670		(9,275,470)		1,452,412
Net income (loss)	\$	(10,037,124)	\$	18,340	\$	(29,145,901)	\$	(160,875)
Adjustments to net income (loss)		(802,926)		195,655		(740,950)		217,645
Net income (loss) attributable to common stockholders	\$	(10,840,050)	\$	213,995	\$	(29,886,851)	\$	56,770
Net income (loss) per share attributable to common stockholders, basic and diluted	\$	(0.45)	\$	0.01	\$	(1.48)	\$	0.00

Ensysce Biosciences, Inc. Condensed Consolidated Statements of Cash Flows

		Year Ended December 31,			
		2020			
Net cash used in operating activities	\$	(8,242,177)	\$	(1,247,342)	
Net cash provided by financing activities		20,312,699		1,100,020	
Change in cash and cash equivalents		12,070,522		(147,322)	
Cash and cash equivalents at beginning of period		194,214		341,536	
Cash and cash equivalents at end of period	\$	12,264,736	\$	194,214	

Ensysce Biosciences, Inc. Condensed Consolidated Balance Sheets

	December 31, 2021		December 31, 2020		
Assets					
Current assets:					
Cash and cash equivalents	\$	12,264,736	\$	194,214	
Prepaid expenses and other current assets		3,397,857		153,662	
Total current assets		15,662,593		347,876	
Other assets		754,756		3,931	
Total assets	\$	16,417,349	\$	351,807	
Liabilities and stockholders' deficit Current liabilities:					
Accounts payable	\$	301,104	\$	1,724,598	
Accrued expenses and other liabilities		3,432,407		370,292	
Notes payable and accrued interest		12,748,155		4,245,082	
Embedded derivative on convertible notes		_		670,262	
Total current liabilities		16,481,666		7,010,234	
Long-term liabilities		8,093,741			
Total liabilities		24,575,407		7,010,234	
Stockholders' deficit		(8,158,058)		(6,658,427)	
Total liabilities and stockholders' equity	\$	16,417,349	\$	351,807	

About Ensysce Biosciences

Ensysce Biosciences, based in San Diego, CA is a clinical-stage biotech company using its two novel proprietary technology platforms to develop safer prescription drugs. Leveraging its Trypsin-Activated Abuse Protection (TAAP) and Multi-Pill Abuse Resistance (MPARTM) platforms, the Company is developing next-generation, tamper-proof

opioids that prevent both drug abuse and overdoses. Ensysce's products are anticipated to provide safer options to treat severe pain and assist in preventing deaths caused by opioid abuse, reducing the human and economic costs. The platforms are covered by an extensive worldwide intellectual property portfolio encompassing a wide array of prescription drugs. For more information, please visit www.ensysce.com.

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," "expect," "plan," 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 on Form 10-K and current repor

Ensysce Biosciences Company Contact:

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Source: Ensysce Biosciences Inc.