

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

**SCHEDULE 13G**

**UNDER THE SECURITIES EXCHANGE ACT OF 1934**

(Amendment No. 2)\*

**Ensysce Biosciences, Inc.**

(Name of Issuer)

**Common Stock, par value \$0.0001 per share**

(Title of Class of Securities)

**293602504**

(CUSIP Number)

**03/31/2025**

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- ☐ Rule 13d-1(b)  
☒ Rule 13d-1(c)  
☐ Rule 13d-1(d)

**SCHEDULE 13G**

**CUSIP No.** 293602504

1	<b>Names of Reporting Persons</b> Perceptive Advisors LLC
2	<b>Check the appropriate box if a member of a Group (see instructions)</b> <input type="checkbox"/> (a) <input type="checkbox"/> (b)
3	<b>Sec Use Only</b>
4	<b>Citizenship or Place of Organization</b> DELAWARE

Number of Shares Beneficially Owned by Each Reporting Person With:	5	Sole Voting Power 0.00
	6	Shared Voting Power 86,666.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 86,666.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person 86,666.00	
10	Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) <input type="checkbox"/>	
11	Percent of class represented by amount in row (9) 5.3 %	
12	Type of Reporting Person (See Instructions) IA	

### SCHEDULE 13G

CUSIP No.	293602504
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1	Names of Reporting Persons Joseph Edelman	
2	Check the appropriate box if a member of a Group (see instructions) <input type="checkbox"/> (a) <input type="checkbox"/> (b)	
3	Sec Use Only	
4	Citizenship or Place of Organization UNITED STATES	
Number of Shares Beneficially Owned by Each Reporting Person With:	5	Sole Voting Power 0.00
	6	Shared Voting Power 86,666.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 86,666.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person 86,666.00	
10	Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) <input type="checkbox"/>	

11	Percent of class represented by amount in row (9) 5.3 %
12	Type of Reporting Person (See Instructions) IN

## SCHEDULE 13G

CUSIP No.	293602504
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1	Names of Reporting Persons Perceptive Life Sciences Master Fund, Ltd.	
2	Check the appropriate box if a member of a Group (see instructions) <input type="checkbox"/> (a) <input type="checkbox"/> (b)	
3	Sec Use Only	
4	Citizenship or Place of Organization CAYMAN ISLANDS	
Number of Shares Beneficially Owned by Each Reporting Person With:	5	Sole Voting Power 0.00
	6	Shared Voting Power 86,666.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 86,666.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person 86,666.00	
10	Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) <input type="checkbox"/>	
11	Percent of class represented by amount in row (9) 5.3 %	
12	Type of Reporting Person (See Instructions) CO	

## SCHEDULE 13G

### Item 1.

- (a) Name of issuer:  
Ensysce Biosciences, Inc.
- (b) Address of issuer's principal executive offices:  
7946 Ivanhoe Avenue, Suite 201, La Jolla, CA, 92037

### Item 2.

(a) **Name of person filing:**

The names of the persons filing this report (collectively, the "Reporting Persons") with respect to shares of Common Stock, par value \$0.0001 per share (the "Common Stock") of Ensysce Biosciences, Inc. ("the Issuer") are:

- (i) Perceptive Advisors LLC ("Perceptive Advisors")
- (ii) Joseph Edelman ("Mr. Edelman")
- (iii) Perceptive Life Sciences Master Fund, Ltd. (the "Master Fund")

(b) **Address or principal business office or, if none, residence:**

The address of the principal business office of each of the Reporting Persons is:

51 Astor Place, 10th Floor, New York, NY 10003

(c) **Citizenship:**

Perceptive Advisors is a Delaware limited liability company.  
Mr. Edelman is a United States citizen.  
The Master Fund is a Cayman Islands corporation.

(d) **Title of class of securities:**

Common Stock, par value \$0.0001 per share

(e) **CUSIP No.:**

293602504

**Item 3. If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:**

- (a) ☐ Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);
- (b) ☐ Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
- (c) ☐ Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
- (d) ☐ Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
- (e) ☐ An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
- (f) ☐ An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
- (g) ☐ A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h) ☐ A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) ☐ A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) ☐ A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:
- (k) ☐ Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K).

**Item 4. Ownership**

(a) **Amount beneficially owned:**

The information required by this item with respect to each Reporting Person is set forth in Rows 5 through 9 and 11 of the cover page to this Schedule 13G. The ownership percentages reported are based on 1,644,728 outstanding shares of Common Stock as reported in the Issuer's Prospectus Supplement filed pursuant to Rule 424(b)(5) with the Securities and Exchange Commission on March 31, 2025.

The Master Fund directly holds 86,666 shares of Common Stock. Perceptive Advisors serves as the investment manager to the Master Fund and may be deemed to beneficially own such shares. Mr. Edelman is the managing member of Perceptive Advisors and may be deemed to beneficially own such shares.

(b) **Percent of class:**

Perceptive Advisors: 5.3 %  
Mr. Edelman: 5.3 %  
Master Fund, Ltd: 5.3 %

(c) **Number of shares as to which the person has:**

**(i) Sole power to vote or to direct the vote:**

Perceptive Advisors: 0  
Mr. Edelman: 0  
Master Fund: 0

**(ii) Shared power to vote or to direct the vote:**

Perceptive Advisors: 86,666  
Mr. Edelman: 86,666  
Master Fund: 86,666

**(iii) Sole power to dispose or to direct the disposition of:**

Perceptive Advisors: 0  
Mr. Edelman: 0  
Master Fund: 0

**(iv) Shared power to dispose or to direct the disposition of:**

Perceptive Advisors: 86,666  
Mr. Edelman: 86,666  
Master Fund: 86,666

**Item 5. Ownership of 5 Percent or Less of a Class.**

**Item 6. Ownership of more than 5 Percent on Behalf of Another Person.**

Not Applicable

**Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.**

Not Applicable

**Item 8. Identification and Classification of Members of the Group.**

Not Applicable

**Item 9. Notice of Dissolution of Group.**

Not Applicable

**Item 10. Certifications:**

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect, other than activities solely in connection with a nomination under ?? 240.14a-11.

**SIGNATURE**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Perceptive Advisors LLC

Signature: /s/ Joseph Edelman  
Name/Title: Joseph Edelman, Managing Member  
Date: 04/03/2025

Joseph Edelman

Signature: /s/ Joseph Edelman  
Name/Title: Joseph Edelman, Managing Member  
Date: 04/03/2025

Perceptive Life Sciences Master Fund, Ltd.

**Signature:** /s/ Joseph Edelman

**Name/Title:** Joseph Edelman, Managing Member

**Date:** 04/03/2025