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

**SCHEDULE 13D**

Under the Securities Exchange Act of 1934

**(Amendment No. 4)\***

**BIMINI CAPITAL MANAGEMENT, INC.**

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**(Name of Issuer)**

**Class A Common Stock**

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**(Title of Class of Securities)**

**090319104**

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**(CUSIP Number)**

**Robert B. Lamm**  
**Gunster, 4855 Technology Way, Suite 630**  
**Boca Raton, FL, 33431**  
**(954) 468-1321**

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**(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)**

**12/19/2025**

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**(Date of Event Which Requires Filing of This Statement)**

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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**SCHEDULE 13D**

**CUSIP No. 090319104**

Name of reporting person

1

Cauley Robert E

2

Check the appropriate box if a member of a Group (See Instructions)

(a)

(b)

3 SEC use only  
Source of funds (See Instructions)

4 OO, PF  
5 Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e)

Citizenship or place of organization

6 UNITED STATES

Sole Voting Power

7

1,546,247.00

Number of Shares Beneficially

Shared Voting Power

8

13,968.00

Owned by Each Reporting Person

Sole Dispositive Power

9

1,546,247.00

With: Shared Dispositive Power

10

13,968.00

Aggregate amount beneficially owned by each reporting person

11 1,560,215.00

Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)

12

Percent of class represented by amount in Row (11)

13 15.5 %

Type of Reporting Person (See Instructions)

14 IN

## SCHEDULE 13D

Item 1. Security and Issuer

Title of Class of Securities:

(a) Class A Common Stock

Name of Issuer:

(b) BIMINI CAPITAL MANAGEMENT, INC.

Address of Issuer's Principal Executive Offices:

(c) 3305 FLAMINGO DRIVE, 3305 FLAMINGO DRIVE, VERO BEACH, FLORIDA , 32963.

**Item 1** This Amendment No. 4 to Schedule 13D relates to the Class A Common Stock, \$0.001 par value per share (the **Comment:** "Common Stock"), of Bimini Capital Management, Inc. (the "Issuer"). The Issuer's principal executive offices are located at 3305 Flamingo Drive, Vero Beach, FL 32963.

Item 2. Identity and Background

(a) The Reporting Person filing this statement is Robert E. Cauley

(b) c/o Bimini Capital Management, Inc., 3305 Flamingo Drive, Vero Beach FL 32963.

(c) Mr. Cauley is the Chairman and Chief Executive Officer of the Issuer.

(d) During the last five years, the Reporting Person has not (i) been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors) or (ii) been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree or final order

enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

(e) During the last five years, the Reporting Person has not (i) been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors) or (ii) been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

(f) The Reporting Person is a United States citizen.

Item 3. Source and Amount of Funds or Other Consideration

The Reporting Person has acquired the Common Stock beneficially owned by him for cash using personal funds or as compensation for serving as an executive officer of the Issuer. The Reporting Person did not acquire the Common Stock beneficially owned by him using funds or other consideration borrowed or otherwise obtained for the purpose of acquiring, holding, trading or voting such Common Stock.

Item 4. Purpose of Transaction

The Reporting Person acquired the shares of Common Stock beneficially owned by him for investment purposes. The Reporting Person may acquire additional shares of Common Stock for cash or as compensation and may otherwise acquire or dispose of shares of Common Stock in the future. Other than as described herein, the Reporting Person has no current plans or proposals which relate to, or could result in, any of the matters referred to in paragraphs (a) through (j), inclusive, of Item 4 of Schedule 13D.

Item 5. Interest in Securities of the Issuer

(a) The Reporting Person beneficially owns 1,560,215 shares of Class A Common Stock, which represents approximately 15.5% of the Issuer's outstanding shares of Class A Common Stock.

(b) The Reporting Person has the sole power to vote and dispose of 1,546,247 of these shares and shared voting power with his adult children over 13,968 of these shares.

(c) On December 19, 2025, the Reporting Person acquired 192,248 shares of Common Stock at a price of \$1.55 per share. The Reporting Person has not effected any other transactions in the Issuer's securities during the last 60 days.

Item 6. Contracts, Arrangements, Understandings or Relationships With Respect to Securities of the Issuer

As the Chairman and Chief Executive Officer of the Issuer, the Reporting Person may receive future compensation in the form of Class A Common Stock, options, phantom stock or other securities convertible into Class A Common Stock. There currently are no other contracts, arrangements, understandings or relationships (legal or otherwise) between the Reporting Person and any other person with respect to any securities of the Issuer, including, but not limited to, transfer or voting of any other securities, finder's fees, joint ventures, loan or option arrangements, puts or calls, guarantees of profits, division of profits or loss, or the giving or withholding of proxies.

Item 7. Material to be Filed as Exhibits.

None.

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.

Cauley Robert E

Signature: /s/ Robert E. Cauley

Name/Title: Robert E. Cauley

Date: 12/23/2025