FORM 3

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

# INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL						
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and A	Address of Report	2. Date of Even Requiring State (Month/Day/Yea 09/16/2004	ment	3. Issuer Name and Ticker or Trading Symbol BIMINI MORTGAGE MANAGEMENT INC [ BMM ]							
(Last) (First) (Middle) 3305 FLAMINGO DRIVE, SUITE 100					Relationship of Reporting Pers (Check all applicable)     X Director		son(s) to Issuer		5. If Amendment, Date of Original Filed (Month/Day/Year)		
(Street)					X	Officer (give title below)	Other (spec below)		ndividual or Joint blicable Line)	/Group Filing (Check	
VERO BEACH	FL	32963				Secretary/Chief Fin.	Officer		-	y One Reporting Person y More than One erson	
(City)	(State)	(Zip)									
			Table I - No	n-Derivat	tive Se	ecurities Beneficially	y Owned				
1. Title of Security (Instr. 4)					2. Amount of Securities Beneficially Owned (Instr. 4)				4. Nature of Indirect Beneficial Ownership (Instr. 5)		
Class A Common Stock, par value \$0.001 per share					7,000		D				
		(				urities Beneficially ( options, convertible		s)			
E			Expiration D	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Inst		4. Conversion or Exercise	Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
			Date Exercisable	Expiration Date	n Title		Amount or Number of Shares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)		
Class B Con share	nmon Stock, pa	ar value \$0.001 per	(1)	(1)		ass A Common Stock, value \$0.001 per share	111,786	(1)	D		
Phantom Shares (2)		(2)		ass A Common Stock, value \$0.001 per share	124,350	(2)	D				

### Explanation of Responses:

- 1. Class B Common Stock converts to Class A Common Stock on a one-for-one basis when the stockholders' equity attributable to the Class A Common Stock equals no less than \$15.00 per share following such conversion.
- 2. Phantom Shares are generally settled by transfer of shares of Class A Common Stock on a one-for-one basis. The exercise and expiration dates are governed by the terms of the Bimini Mortgage Management, Inc. 2003 Long Term Incentive Compensation Plan, the applicable Phantom Share Award Agreement and specific elections of the Reporting Person.

<u>Jeffrey J. Zimmer, by power of attorney</u> <u>09/15/2004</u>

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  If the form is filed by more than one reporting person, see Instruction 5 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

#### POWER OF ATTORNEY

#### FOR SEC FILINGS ON FORMS 3, 4, 5 AND 144 IN RESPECT OF SECURITIES OF BIMINI MORTGAGE MANAGEMENT, INC.

The undersigned hereby constitutes and appoints Jeffrey J. Zimmer as his true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution for him in his name and stead in any and all capacities, to sign and file for and on his behalf, in respect of any acquisition, disposition or other change in ownership of any shares of common stock of Bimini Mortgage Management, Inc. (the "Company"), the following:

- (i) any Initial Statement of Beneficial Ownership of Securities on Form 3 to be filed with the Securities and Exchange Commission;
- (ii) any Statement of Changes of Beneficial Ownership of Securities on Form 4 to be filed with the Securities and Exchange Commission;
- (iii) any Annual Statement of Beneficial Ownership of Securities on Form 5 to be filed with the Securities and Exchange Commission;
- (iv) any Notice of Proposed Sale of Securities on Form 144 to be filed with the Securities and Exchange Commission; and
- (v) any and all agreements, certificates, receipts, or other documents in connection therewith.

The undersigned hereby gives full power and authority to the attorney-in-fact to:

(i) seek and obtain as the undersigned's representative and on the undersigned's behalf, information on transactions in the Company's securities from any third party, including brokers, employee benefit plan administrators and trustees, and the undersigned hereby authorizes any such person to release such information to the undersigned and approves and ratifies any such release of information.

The undersigned hereby grants unto such attorney-in-fact and agent full power and authority to do and perform each and every act and thing requisite and necessary in connection with such matters and hereby ratifies and confirms all that any such attorney-in-fact and agent or substitute may do or cause to be done by virtue hereof.

The undersigned acknowledges that:

(i) neither the Company nor such attorney-in-fact assumes (i) any liability for the undersigned's responsibility to comply with the
requirement of the Exchange Act, (ii) any liability of the undersigned for any failure to comply with such requirements, or (iii) any obligation or
liability of the undersigned for profit disgorgement under Section 16(b) of the Exchange Act; and

(ii) this Power of Attorney does not relieve the undersigned from responsibility for compliance with the undersigned's obligations under the Exchange Act, including without limitation the reporting requirements under Section 16 of the Exchange Act.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to such attorney-in-fact.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney.

Date: September 9, 2004 /s/ Robert E. Cauley

Name: Robert E. Cauley

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