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

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**FORM 8-A**

**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES  
PURSUANT TO SECTION 12(b) OR (g) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

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**LeMaitre Vascular, Inc.**

(Exact name of registrant as specified in its charter)

**Delaware**  
(State of incorporation or organization)

**04-2825458**  
(I.R.S. Employer  
Identification No.)

**63 Second Avenue**  
**Burlington, Massachusetts**  
(Address of principal executive offices)

**01803**  
(Zip Code)

Securities to be registered pursuant to Section 12(b) of the Act:

Title of each class  
to be so registered  
**Common Stock, par value \$0.01 per share**

Name of each exchange on which  
each class is to be registered  
**The NASDAQ Stock Market LLC**

If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A.(c), please check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A.(d), please check the following box.

Securities Act registration statement file number to which this form relates: **333-133532**

Securities to be registered pursuant to Section 12(g) of the Act: **None**

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## INFORMATION REQUIRED IN REGISTRATION STATEMENT

### **Item 1. Description of Registrant's Securities to be Registered.**

For a description of the Registrant's common stock to be registered hereunder, reference is made to the information set forth under the heading "Description of Capital Stock" in the Registrant's prospectus that constitutes a part of the Registrant's Registration Statement on Form S-1, as amended (File No. 333-133532) (the "Registration Statement"), filed under the Securities Act of 1933, as amended (the "Securities Act"), which information is hereby incorporated by reference.

### **Item 2. Exhibits.**

Under the Instructions as to Exhibits with respect to Form 8-A, no exhibits are required to be filed, because no other securities of the Registrant are registered on The NASDAQ Stock Market LLC and the securities registered hereby are not being registered pursuant to Section 12(g) of the Exchange Act.

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**SIGNATURES**

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

LEMAITRE VASCULAR, INC.

Date: October 17, 2006

By: /s/ George W. LeMaitre  
George W. LeMaitre  
Chairman, Chief Executive Officer and President