

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G
(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT
TO RULES 13d-1(b)(c), AND (d) AND AMENDMENTS THERETO FILED
PURSUANT TO RULE 13d-2(b)
(Amendment No. 2)*

ACUSPHERE, INC.

(Name of Issuer)

COMMON STOCK

(Title of Class of Securities)

00511R 87 0

(CUSIP Number)

December 31, 2005

(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)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this 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.)

(Continued on following page(s))

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Page 2 of 12 Pages

1 NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):

Bank of America Ventures
95-6016836

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
(a)

(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

 5 SOLE VOTING POWER 1,314,164
 NUMBER OF SHARES
 BENEFICIALLY OWNED
 BY EACH REPORTING
 PERSON WITH

 6 SHARED VOTING POWER 146,016

 7 SOLE DISPOSITIVE POWER 1,314,164

 8 SHARED DISPOSITIVE POWER 146,016

 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,487,180

 10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
 []

 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 6.70%

 12 TYPE OF REPORTING PERSON*
 CO

*SEE INSTRUCTIONS BEFORE FILLING OUT!

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 1 NAMES OF REPORTING PERSONS
 I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):
 Bank of America, N.A.
 94-1687665

 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
 (a) [] (b) []

 3 SEC USE ONLY

 4 CITIZENSHIP OR PLACE OF ORGANIZATION
 United States

 5 SOLE VOTING POWER 0
 NUMBER OF SHARES
 BENEFICIALLY OWNED
 BY EACH REPORTING

PERSON WITH

 6 SHARED VOTING POWER 1,912,594

 7 SOLE DISPOSITIVE POWER 0

 8 SHARED DISPOSITIVE POWER 1,912,594

 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,912,594

 10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* []

 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 8.78%

 12 TYPE OF REPORTING PERSON* BK

*SEE INSTRUCTIONS BEFORE FILLING OUT!

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 1 NAMES OF REPORTING PERSONS
 I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):
 NB Holdings Corporation 56-1857749

 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
 (a) [] (b) []

 3 SEC USE ONLY

 4 CITIZENSHIP OR PLACE OF ORGANIZATION Delaware

 5 SOLE VOTING POWER 0
 NUMBER OF SHARES
 BENEFICIALLY OWNED
 BY EACH REPORTING
 PERSON WITH

 6 SHARED VOTING POWER 1,919,115

 0

7 SOLE DISPOSITIVE POWER

8 SHARED DISPOSITIVE POWER 1,919,115

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,912,594

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

[]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 8.78%

12 TYPE OF REPORTING PERSON* CO

*SEE INSTRUCTIONS BEFORE FILLING OUT!

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1 NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):

BancBoston Ventures, Inc. 04-6013165

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) []

(b) []

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Massachusetts

5 SOLE VOTING POWER NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

452,414

6 SHARED VOTING POWER

0

7 SOLE DISPOSITIVE POWER

452,414

8 SHARED DISPOSITIVE POWER

0

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
452,414

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
[]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
2.08%

12 TYPE OF REPORTING PERSON*
CO

*SEE INSTRUCTIONS BEFORE FILLING OUT!

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1 NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):
BA Venture Partners II, Inc.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
(a) [] (b) []

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION
Delaware

5 SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH
146,016

6 SHARED VOTING POWER
0

7 SOLE DISPOSITIVE POWER
146,016

8 SHARED DISPOSITIVE POWER
0

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
146,016

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
[]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

0.67%

12 TYPE OF REPORTING PERSON*

CO

*SEE INSTRUCTIONS BEFORE FILLING OUT!

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1 NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):

Bank of America Capital Corporation

36-3009841

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
(a) []

(b) []

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5 SOLE VOTING POWER
NUMBER OF SHARES
BENEFICIALLY OWNED
BY EACH REPORTING
PERSON WITH

6,521

6 SHARED VOTING POWER

0

7 SOLE DISPOSITIVE POWER

6,521

8 SHARED DISPOSITIVE POWER

0

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

6,521

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

[]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

0.03%

12 TYPE OF REPORTING PERSON*

CO

*SEE INSTRUCTIONS BEFORE FILLING OUT!

1 NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):

Bank of America Corporation
56-0906609

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
(a) [] (b) []

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION
United States

5 SOLE VOTING POWER
NUMBER OF SHARES
BENEFICIALLY OWNED
BY EACH REPORTING
PERSON WITH

0

1,919,115

6 SHARED VOTING POWER

0

7 SOLE DISPOSITIVE POWER

1,919,115

8 SHARED DISPOSITIVE POWER

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
1,919,115

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN
SHARES*

[]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
8.81%

12 TYPE OF REPORTING PERSON*
HC

*SEE INSTRUCTIONS BEFORE FILLING OUT!

Item 1(a). Name of Issuer:

Acusphere, Inc.

Item 1(b). Address of Issuer's Principal Executive Offices:

500 Arsenal Street
Watertown, Massachusetts 02472

Item 2(a). Name of Person Filing:

Bank of America Corporation
NB Holdings Corporation
Bank of America, N.A.
BancBoston Ventures, Inc.
Banc of America Ventures
Bank of America Capital Corporation
BA Venture Partners II, Inc.

Item 2(b). Address of Principal Business Office or, if None,
Residence:

Each Reporting Person has its or his principal business office at 100 North Tryon Street, Floor 25, Bank of America Corporate Center, Charlotte, NC 28255.

Item 2(c). Citizenship:

Bank of America Corporation	Delaware
NB Holdings Corporation	Delaware
Bank of America N.A.	United States
BancBoston Ventures, Inc.	Massachusetts
Banc of America Ventures	California
Bank of America Capital Corporation	Delaware
BA Venture Partners II, Inc.	Delaware

Item 2(d). Title of Class of Securities: Common Stock

Item 2(e). CUSIP Number: 00511R 87 0

Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:

- (a) Broker or dealer registered under Section 15 of the Exchange Act.
- (b) Bank as defined in Section 3(a)(6) of the Exchange Act.
- (c) Insurance company as defined in Section 3(a)(19) of the Exchange Act.
- (d) Investment company registered under Section 8 of the Investment Company Act.
- (e) An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).
- (f) An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).
- (g) A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).
- (h) A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i) A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act.
- (j) Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to Rule 13d-1(c), check this box.

Item 4. Ownership:

With respect to the beneficial ownership of the reporting person, see Items 5 through 11 of the cover pages to this Schedule 13G, which are incorporated herein by reference.

Item 5. Ownership of Five Percent or Less of a Class:

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following .

Item 6. Ownership of More than Five 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:

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. Certification:

By signing below each of the undersigned certifies that, to the best of such undersigned's knowledge and belief, the securities referred to above were not acquired and are not 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.

SIGNATURE

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

Dated: February 3, 2006

BANK OF AMERICA CORPORATION
NB HOLDINGS CORPORATION
BANK OF AMERICA, N.A.

By: /s/ Charles F. Bowman
Charles F. Bowman
Senior Vice President

BANK OF AMERICA VENTURES

By: /s/ Kate D. Mitchell
Kate D. Mitchell
Managing Director

BANCBOSTON VENTURES, INC.

By: /s/ Maia Hamann
Maia Hamann
Managing Director

BANK OF AMERICA CAPITAL CORPORATION

By: /s/ Roy K. Moyer
Roy K. Moyer
Managing Director

BA VENTURE PARTNERS II, INC.

By: /s/ Kate D. Mitchell
Kate D. Mitchell
Chairman of the Board

Exhibit 99.1

JOINT FILING AGREEMENT

The undersigned hereby agree that they are filing this statement jointly pursuant to Rule 13d-1(k)(1). Each of them is responsible for the timely filing of such Schedule 13G and any amendments thereto, and for the completeness and accuracy of the information concerning such person contained therein; but none of them is responsible for the completeness or accuracy of the information concerning the other persons making the filing, unless such person knows or has reason to believe that such information is inaccurate.

In accordance with Rule 13d-1(k)(1) promulgated under the Securities and Exchange Act of 1934, as amended, the undersigned hereby agree to the joint filing with each other on behalf of each of them of to such a statement on Schedule 13G with respect to the common stock of Acusphere, Inc. beneficially owned by each of them. This Joint Filing Agreement shall be included as an exhibit to such Schedule 13G.

Dated: February 3, 2006

BANK OF AMERICA CORPORATION
NB HOLDINGS CORPORATION
BANK OF AMERICA, N.A.

By: /s/ Charles F. Bowman
Charles F. Bowman
Senior Vice President

BANK OF AMERICA VENTURES

By: /s/ Kate D. Mitchell
Kate D. Mitchell
Managing Director

BANCBOSTON VENTURES, INC.

By: /s/ Maia Hamann
Maia Hamann
Managing Director

BANK OF AMERICA CAPITAL CORPORATION

By: /s/ Roy K. Moyer
Roy K. Moyer
Managing Director

BA VENTURE PARTNERS II, INC.

By: /s/ Kate D. Mitchell
Kate D. Mitchell
Chairman of the Board