

SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

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**SCHEDULE 13G**

**UNDER THE SECURITIES EXCHANGE ACT OF 1934  
(Amendment No.)\***

**ON SEMICONDUCTOR CORPORATION**

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(Name of Issuer)

**COMMON STOCK**

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(Title of Class of Securities)

**682189105**

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(CUSIP Number)

**December 31, 2009**

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(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*.)

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**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 (See Instructions) (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

24,703,866

**7** SOLE DISPOSITIVE POWER

0

**8** SHARED DISPOSITIVE POWER

24,724,685

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

24,724,685

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

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

5.8%

**12** TYPE OF REPORTING PERSON (See Instructions)

HC

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

Bank of America, NA 94-1687665

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

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION

United States

<b>5</b> SOLE VOTING POWER	1,511
<b>6</b> SHARED VOTING POWER	1,503,972
<b>7</b> SOLE DISPOSITIVE POWER	1,511
<b>8</b> SHARED DISPOSITIVE POWER	1,520,010
<b>9</b> AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	1,521,521
<b>10</b> CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)	<input type="checkbox"/>
<b>11</b> PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	0.4%
<b>12</b> TYPE OF REPORTING PERSON (See Instructions)	BK

**1** NAMES OF REPORTING PERSONS

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

Columbia Management Advisors, LLC 94-1687665

**2** CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) (b) **3** SEC USE ONLY**4** CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

**5** SOLE VOTING POWER

1,118,330

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON WITH**6** SHARED VOTING POWER

3,430

**7** SOLE DISPOSITIVE POWER

1,512,626

**8** SHARED DISPOSITIVE POWER

6,670

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,519,296

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

0.4%

**12** TYPE OF REPORTING PERSON (See Instructions)

IA

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

Banc of America Investment Advisors, Inc. 56-2058405

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

14,828

**7** SOLE DISPOSITIVE POWER

0

**8** SHARED DISPOSITIVE POWER

0

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON

14,828

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

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

0.0%

**12** TYPE OF REPORTING PERSON (See Instructions)

IA

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**1** NAMES OF REPORTING PERSONS

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

First Republic Investment Management, Inc. 22-3623353

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

(b)

**3** SEC USE ONLY**4** CITIZENSHIP OR PLACE OF ORGANIZATION

New York

**5** SOLE VOTING POWER

0

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON WITH

**6** SHARED VOTING POWER

0

**7** SOLE DISPOSITIVE POWER

4,781

**8** SHARED DISPOSITIVE POWER

0

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

4,781

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

0.0%

**12** TYPE OF REPORTING PERSON (See Instructions)

IA

**1** NAMES OF REPORTING PERSONS

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

Merrill Lynch, Pierce, Fenner &amp; Smith, Inc. 13-5674085

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

(b)

**3** SEC USE ONLY**4** CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

**5** SOLE VOTING POWER

23,182,462

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON WITH

**6** SHARED VOTING POWER

0

**7** SOLE DISPOSITIVE POWER

23,182,462

**8** SHARED DISPOSITIVE POWER

0

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

23,182,462

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.5%

**12** TYPE OF REPORTING PERSON (See Instructions)

BD, IA

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

Merrill Lynch International 13-3779485

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

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION

England

**5** SOLE VOTING POWER

15,921

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON WITH

**6** SHARED VOTING POWER

0

**7** SOLE DISPOSITIVE POWER

15,921

**8** SHARED DISPOSITIVE POWER

0

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON

15,921

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

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

0.0%

**12** TYPE OF REPORTING PERSON (See Instructions)

BD



**Item 1(a). Name of Issuer:**

ON Semiconductor Corp

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

5005 East McDowell Road  
Phoenix, AZ 85008

**Item 2(a). Name of Person Filing:**

Bank of America Corporation  
Bank of America, NA  
Columbia Management Advisors, LLC  
Banc of America Investment Advisors, Inc.  
First Republic Investment Management, Inc.  
Merrill Lynch, Pierce, Fenner & Smith, Inc.  
Merrill Lynch International

**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
Bank of America, NA	United States
Columbia Management Advisors, LLC	Delaware
Banc of America Investment Advisors, Inc.	Delaware
First Republic Investment Management, Inc.	New York
Merrill Lynch, Pierce, Fenner & Smith, Inc.	Delaware
Merrill Lynch International	England

**Item 2(d). Title of Class of Securities:**

Common Stock

**Item 2(e). CUSIP Number:**

682189105

**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 5 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 or 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 or Control Person:**

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

Not Applicable.

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

Not Applicable.

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**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 acquired and are held in the ordinary course of business and 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 my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: January 29, 2010

**Bank of America Corporation  
Bank of America, N.A.**

By: /s/ Angelina L. Richardson

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Angelina L. Richardson  
Vice President

**Columbia Management Advisors, LLC**

By: /s/ Robert McConnaughey

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Robert McConnaughey  
Managing Director

**Banc of America Investment Advisors, Inc.**

By: /s/ Jeffrey Cullen

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Jeffrey Cullen  
Vice President

**First Republic Investment Management, Inc.**

By: /s/ Charles A. Christofilis

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Charles A. Christofilis  
Chief Compliance Officer

**Merrill Lynch, Pierce, Fenner & Smith, Inc.**

By: /s/ Robert Shine

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Robert Shine  
Attorney-In-Fact

**Merrill Lynch International**

By: /s/ Gurjit Wadhera

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Gurjit Wadhera  
Managing Director

Exhibit 99.1

**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

beneficially owned by each of them. This Joint Filing Agreement shall be included as an exhibit to such Schedule 13G.

Dated: January 29, 2010

**Bank of America Corporation**  
**Bank of America, N.A.**

By: /s/ Angelina L. Richardson

\_\_\_\_\_  
Angelina L. Richardson  
Vice President

**Columbia Management Advisors, LLC**

By: /s/ Robert McConnaughey

\_\_\_\_\_  
Robert McConnaughey  
Managing Director

**Banc of America Investment Advisors, Inc.**

By: /s/ Jeffrey Cullen

\_\_\_\_\_  
Jeffrey Cullen  
Vice President

**First Republic Investment Management, Inc.**

By: /s/ Charles A. Christofilis

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Charles A. Christofilis  
Chief Compliance Officer

**Merrill Lynch, Pierce, Fenner & Smith, Inc.**

By: /s/ Robert Shine

\_\_\_\_\_  
Robert Shine  
Attorney-In-Fact

**Merrill Lynch International**

By: /s/ Gurjit Wadhwa

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Gurjit Wadhwa  
Managing Director