SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

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

ON SEMICONDUCTOR CORPORATION

(Name of Issuer)

COMMON STOCK

(Title of Class of Securities)

682189105

(CUSIP Number)

December 31, 2009

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the Rule pursuant to which this Schedule is filed:

- [X] 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		906609	
2		CHECK THE APPROPRIATE BOX IF A	A MEMBER OF A GROUP (See	
		Instruction	(a) []	
			(b) []	
3	SEC US	SE ONLY		
4	CITIZE	NSHIP OR PLACE OF ORGANIZATION		
			Delaware	
		5 SOLE VOTING POWER		
			0	
NUMBE				
SHAR		6 SHARED VOTING POWER	24,703,866	
BENEFIC			24,703,800	
OWNEI		7 SOLE DISPOSITIVE POWER		
EAC			0	
REPOR	-			
PERSON	WITH			
		8 SHARED DISPOSITIVE POWER	24,724,685	
9	ACCDI	l Egate amount beneficially own	ED BY EACH DEDODTING	
3	PERSO		LD DI EACH REFORTING	
	rensu	11	24,724,685	
10	CUECH	K IF THE AGGREGATE AMOUNT IN RC		
10		CS (See Instructions)	W (3) EACLUDES CERTAIN	
	SHARE		гэ	
11				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
			F 00/	
- 12			5.8%	
12	TYPE C	OF REPORTING PERSON (See Instructions))	
			НС	

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	NT A N 6170		DCONC	
	NAMES OF REPORTING PERSONS			
	I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):			
	Bank of America, NA 94-1687665			
2	Dalik UI			A MEMBER OF A GROUP (See
2			Instructio	
			mstruction	(b) []
3	SEC US	SE ONLY		(*)[]
_		_		
4	CITIZE	NSHIP OR PLACE O	F ORGANIZATION	
		1		United States
		5 SOLE VOTING PO	OWER	1,511
NUMBEI	R OF			1,511
SHAR	-	6 SHARED VOTING	G POWER	
BENEFICI	ALLY			1,503,972
OWNED	BY	7 SOLE DISPOSITI	VE DOWED	
EACH		7 SOLE DISPOSITI	VEFOWER	1,511
REPORT				
PERSON	WITH	8 SHARED DISPOS		1,520,010
		0 SHARED DISPOS	IIIVEFOWER	1,520,010
9	AGGRE	EGATE AMOUNT B	ENEFICIALLY OW	NED BY EACH REPORTING
	PERSO	N		
ļļ				1,521,521
			TE AMOUNT IN R	OW (9) EXCLUDES CERTAIN
	SHARE	S (See Instructions)		
11				
	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
				0.4%
12	TYPE	OF REPORTING PERS	SON (See Instruction	
	11110			
				BK

	1			
1	NAMES OF REPORTING PERSONS			
	I.R.S. II	I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):		
	Columbia Management Advisors, LLC 94-1687665			
2	Colum	CHECK THE APPROPRIATE BOX IF A		
2		Instruction		
		monución	(b) []	
3	SEC US	SE ONLY		
4	CITIZE	NSHIP OR PLACE OF ORGANIZATION		
-		E COLE MOTING DOMED	Delaware	
		5 SOLE VOTING POWER	1,118,330	
NUMBI	ER OF		, -,	
SHAF		6 SHARED VOTING POWER	2,420	
BENEFIC			3,430	
OWNE EAC		7 SOLE DISPOSITIVE POWER		
REPOR			1,512,626	
PERSON				
121001		8 SHARED DISPOSITIVE POWER	6,670	
9	AGGRI PERSO	EGATE AMOUNT BENEFICIALLY OWN	IED BY EACH REPORTING	
	PERSU	'I N	1,519,296	
10	CHECK	K IF THE AGGREGATE AMOUNT IN RC		
10	SHARES (See Instructions)			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
			0.4%	
12	TYPE C	OF REPORTING PERSON (See Instructions))	
			IA	
	1			

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1	NAMES OF REPORTING PERSONS			
	1.K.S. II	I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):		
	Banc of America Investment Advisors, Inc. 56-2058405			
2	Dune of		K IF A MEMBER OF A GROUP (See	
			(a) []	
			(b) []	
3	SEC US	SE ONLY		
4	CITIZE	NSHIP OR PLACE OF ORGANIZATIO	N	
			Delaware	
	L	5 SOLE VOTING POWER		
			0	
NUMBE	-	6 SHARED VOTING POWER		
SHAR		6 SHARED VOTING POWER	14,828	
OWNEI			,	
EAC		7 SOLE DISPOSITIVE POWER	0	
REPOR	TING		0	
PERSON	WITH			
		8 SHARED DISPOSITIVE POWER	0	
9	9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING		OWNED BY EACH REPORTING	
-	PERSO			
			14,828	
10		K IF THE AGGREGATE AMOUNT IN	N ROW (9) EXCLUDES CERTAIN	
	SHARES (See Instructions)			
11				
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):			
	Einst De	Einst Daruhlis Investment Mens zement Inc. 22 202202		
2	FIRST RE	public Investment Management, Inc. CHECK THE APPROPRIATE BOX IF	22-3623353	
2		Instructio		
		Instructio	(a) [] (b) []	
3	SEC US	SE ONLY	(0)[]	
5	520 00			
4	CITIZE	NSHIP OR PLACE OF ORGANIZATION		
			New York	
		5 SOLE VOTING POWER	0	
NUMB	ER OF		0	
SHA	_	6 SHARED VOTING POWER		
BENEFIC	CIALLY		0	
OWNE	D BY	7 SOLE DISPOSITIVE POWER		
EAG	011	7 SOLE DISPOSITIVE POWER	4,781	
REPOR				
PERSON	WITH	8 SHARED DISPOSITIVE POWER	0	
		6 SHARED DISPOSITIVE POWER	0	
9	AGGRI	EGATE AMOUNT BENEFICIALLY OWN	NED BY EACH REPORTING	
	PERSO	N		
			4,781	
10		K IF THE AGGREGATE AMOUNT IN RO	OW (9) EXCLUDES CERTAIN	
	SHARES (See Instructions)			
11				
	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
			0.0%	
12	TVPF	OF REPORTING PERSON (See Instructions		
	IA			

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1	NAME	COEDEDODTING DEDCONC		
1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):			
	I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):			
	Merrill Lynch, Pierce, Fenner & Smith, Inc. 13-5674085			
2	- Witching	CHECK THE APPROPRIATE BOX IF A		
		Instruction		
			(b) []	
3	SEC US	SE ONLY		
4	CITIZE	NSHIP OR PLACE OF ORGANIZATION		
			Delaware	
		5 SOLE VOTING POWER	Delaware	
		S SOLL VOTING FOWER	23,182,462	
NUMB				
SHA	1.20	6 SHARED VOTING POWER	0	
BENEFI OWNE				
EA		7 SOLE DISPOSITIVE POWER		
REPOR			23,182,462	
PERSON	N WITH			
		8 SHARED DISPOSITIVE POWER	0	
9		 EGATE AMOUNT BENEFICIALLY OWN	ED BY FACH DEDODTING	
3	PERSO		LE DI LIGH REFORTING	
	12100		23,182,462	
10	CHECH	K IF THE AGGREGATE AMOUNT IN RO	W (9) EXCLUDES CERTAIN	
	SHARES (See Instructions)			
	[]			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	TVDE	5.5%		
12	TYPE OF REPORTING PERSON (See Instructions)			
	BD, IA			
L	1			

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1 NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIED	IES ONLY):		
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTIT	IES UNLY J:		
	,		
Merrill Lynch International 13-3779485			
2 CHECK THE APPROPRIATE BOX IF A MEMBE	ER OF A GROUP (See		
Instructions)	(a) []		
	(b) []		
3 SEC USE ONLY			
4 CITIZENSHIP OR PLACE OF ORGANIZATION			
	England		
5 SOLE VOTING POWER	Liigialiu		
	15,921		
NUMBER OF			
SHARES 6 SHARED VOTING POWER	0		
BENEFICIALLY OWNED BY	0		
EACH 7 SOLE DISPOSITIVE POWER	15 001		
REPORTING	15,921		
PERSON WITH			
8 SHARED DISPOSITIVE POWER	0		
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY	FACH REPORTING		
PERSON			
	15,921		
10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EX	XCLUDES CERTAIN		
SHARES (See Instructions)			
	[]		
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN RO	w (9)		
	0.0%		
12 TYPE OF REPORTING PERSON (See Instructions)	0.070		
	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) [X] 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.

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

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

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 Wadhera

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

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 Wadhera

Gurjit Wadhera Managing Director