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

# SCHEDULE 13G

(Rule 13d-102)

## Information Statement Pursuant to Rules 13d-1 and 13d-2 **Under the Securities Exchange Act of 1934** (Amendment No. 1)\*

		ON Semiconductor Corporation	
		(Name of Issuer)	
		Common stock, par value \$0.01 per share	
		(Title of Class of Securities)	
		682189105	
		(CUSIP Number)	
		December 31, 2012	
		Date of Event Which Requires Filing of the Statement	
Chec	k the appropriate box to designa	ate the rule pursuant to which this Schedule is filed:	
	Rule 13d-1(b)		
X	Rule 13d-1(c)		
П	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 cover 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.	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON					
	Citadel Advisors LLC					
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) □					
			(b) 🗆			
3.	SEC USE ONLY					
4.	CITIZENSHIP OR PLACE OF OR Delaware	RGANIZA	ATION			
	NUMBER OF	5.	SOLE VOTING POWER 0			
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		6.	SHARED VOTING POWER			
			20,880,045 shares			
		7.	SOLE DISPOSITIVE POWER 0			
		8.	SHARED DISPOSITIVE POWER See Row 6 above			
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON See Row 6 above					
10.	CHECK BOX IF THE AGGREG	SATE AMO	OUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11.	PERCENT OF CLASS REPRES	ENTED B	BY AMOUNT IN ROW (9)			
	4.7% <del>1</del>					
12.	TYPE OF REPORTING PERSON IA; OO; HC					

The percentages reported in this Schedule 13G/A are based upon 448,293,513 shares of common stock outstanding as of October 26, 2012 (according to the Form 10-Q filed by the issuer on November 2, 2012).

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1.	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON					
	Citadel Holdings II LP					
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a)					
			(b) 🗆			
3.	SEC USE ONLY					
4.	CITIZENSHIP OR PLACE OF OF Delaware	RGANIZA	ΓΙΟΝ			
	NUMBER OF	5.	SOLE VOTING POWER 0			
SHARES BENEFICIALLY OWNED BY		6.	SHARED VOTING POWER			
	EACH REPORTING		20,880,045 shares			
PERSON WITH		7.	SOLE DISPOSITIVE POWER 0			
		8.	SHARED DISPOSITIVE POWER See Row 6 above			
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  See Row 6 above					
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □					
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	4.7%					
12.	TYPE OF REPORTING PERSON PN: HC					

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1.	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON							
	Citadel Investment Group II, L.	L.C.						
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) □							
3.	(b)  SEC USE ONLY							
4.	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware							
	NUMBER OF	5.	SOLE VOTING POWER 0					
	SHARES BENEFICIALLY OWNED BY EACH REPORTING	6. SHARED VOTING POWER						
			20,907,78	32 shares				
PERSON WITH		7.	SOLE DISPOSITIVE POWER 0					
		8.	SHARED DISPOS See Row		ER			
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON See Row 6 above.							
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □							
11.	PERCENT OF CLASS REPRES	ENTED B	Y AMOUNT IN RO	W (9)				
	4.7%							
12.	TYPE OF REPORTING PERSON OO; HC							

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1.	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON					
	Kenneth Griffin					
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) □					
			(b) □			
3.	SEC USE ONLY					
4.	CITIZENSHIP OR PLACE OF OR U.S. Citizen	RGANIZA	TION			
	NUMBER OF	5.	SOLE VOTING POWER 0			
SHARES BENEFICIALLY OWNED BY		6.	SHARED VOTING POWER			
	EACH REPORTING		20,907,782 shares			
PERSON WITH		7.	SOLE DISPOSITIVE POWER 0			
		8.	SHARED DISPOSITIVE POWER See Row 6 above			
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  See Row 6 above					
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □					
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	4.7%					
12.	TYPE OF REPORTING PERSON IN: HC					

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Item 1(a) Name of Issuer

ON Semiconductor Corporation

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

5005 E. McDowell Road, Phoenix, AZ 85008

Item 2(a) Name of Person Filing

This Schedule 13G/A is being jointly filed by Citadel Advisors LLC ("Citadel Advisors"), Citadel Holdings II LP ("CH-II"), Citadel Investment Group II, L.L.C. ("CIG-II") and Mr. Kenneth Griffin (collectively with Citadel Advisors, CH-II and CIG-II, the "Reporting Persons") with respect to shares of common stock of the above-named issuer (and options to purchase such shares) owned by Citadel Equity Fund Ltd., a Cayman Islands limited company ("CEF"), Citadel Global Equities Master Fund Ltd., a Cayman Islands limited company ("CG-Alpha"), certain segregated accounts and Citadel Securities LLC, a Delaware limited liability company ("Citadel Securities").

Citadel Advisors is the portfolio manager for CEF, CG and CG-Alpha, and the investment manager for certain segregated accounts. CH-II was, as of December 31, 2012, the managing member of Citadel Advisors. Citadel Holdings I LP, a Delaware limited partnership ("CH-I"), is the non-member manager of Citadel Securities. CIG-II is the general partner of CH-I and CH-II. Mr. Griffin is the President and Chief Executive Officer of, and owns a controlling interest in, CIG-II.

The filing of this statement shall not be construed as an admission that any of the Reporting Persons is the beneficial owner of any securities covered by the statement other than the securities actually owned by such person (if any).

Item 2(b) Address of Principal Business Office

The address of the principal business office of each of the Reporting Persons is c/o Citadel LLC, 131 S. Dearborn Street, 32nd Floor, Chicago, Illinois 60603.

Item 2(c) Citizenship

Each of Citadel Advisors and CIG-II is organized as a limited liability company under the laws of the State of Delaware. CH-II is organized as a limited partnership under the laws of the State of Delaware. Mr. Griffin is a U.S. citizen.

Item 2(d) Title of Class of Securities

Common stock, par value \$0.01 per share

Item 2(e) CUSIP Number

682189105

Item 3 If this statement is filed pursuant to Rules 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;

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- (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 filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution:

### Item 4 Ownership

### A. Citadel Advisors LLC

- (a) Citadel Advisors may be deemed to beneficially own 20,880,045 shares of Common Stock.
- (b) The number of shares Citadel Advisors may be deemed to beneficially own constitutes approximately 4.7% of the Common Stock outstanding.
- (c) Number of shares as to which such person has:
  - (i) sole power to vote or to direct the vote: 0
  - (ii) shared power to vote or to direct the vote: 20,880,045
  - (iii) sole power to dispose or to direct the disposition of: 0
  - (iv) shared power to dispose or to direct the disposition of: 20,880,045

- B. Citadel Holdings II LP
  - (a) CH-II may be deemed to beneficially own 20,880,045 shares of Common Stock.
  - (b) The number of shares CH-II may be deemed to beneficially own constitutes approximately 4.7% of the Common Stock outstanding.
  - (c) Number of shares as to which such person has:
    - (i) sole power to vote or to direct the vote: 0
    - (ii) shared power to vote or to direct the vote: 20,880,045
    - (iii) sole power to dispose or to direct the disposition of: 0
    - (iv) shared power to dispose or to direct the disposition of: 20,880,045
- C. Citadel Investment Group II, L.L.C.
  - (a) CIG-II may be deemed to beneficially own 20,907,782 shares of Common Stock.
  - (b) The number of shares CIG-II may be deemed to beneficially own constitutes approximately 4.7% of the Common Stock outstanding.
  - (c) Number of shares as to which such person has:
    - (i) sole power to vote or to direct the vote: 0
    - (ii) shared power to vote or to direct the vote: 20,907,782
    - (iii) sole power to dispose or to direct the disposition of: 0
    - (iv) shared power to dispose or to direct the disposition of: 20,907,782
- D. Kenneth Griffin
  - (a) Mr. Griffin may be deemed to beneficially own 20,907,782 shares of Common Stock.
  - (b) The number of shares Mr. Griffin may be deemed to beneficially own constitutes approximately 4.7% of the Common Stock outstanding.
  - (c) Number of shares as to which such person has:
    - (i) sole power to vote or to direct the vote: 0
    - (ii) shared power to vote or to direct the vote: 20,907,782
    - (iii) sole power to dispose or to direct the disposition of: 0
    - (iv) shared power to dispose or to direct the disposition of: 20,907,782

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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 5 percent of the class of securities, check the following x.

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 See Item 2 above

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 I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held 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.

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comp	After reasonable inquiry and plete and correct.	to the best of its knowledge and beli	ief, the unde	rsigned certify that the information set forth in this s	tatement is true
Date	d this 14 <sup>th</sup> day of February, 2013.				
CITA	ADEL ADVISORS LLC		CITA	DEL HOLDINGS II LP	
Ву:	Citadel Advisors Holdings LP, its Managing Member		By:	Citadel Investment Group II, L.L.C., its General Partner	
Ву:	Citadel Investment Group II, L its General Partner	.L.C.,	By:	/s/ Mark Polemeni Mark Polemeni, Authorized Signatory	
Ву:	/s/ Mark Polemeni Mark Polemeni, Authorized Si	gnatory	-		
CITA	ADEL INVESTMENT GROUP	II, L.L.C.	KEN	NETH GRIFFIN	
Ву:	/s/ Mark Polemeni Mark Polemeni, Authorized Si	gnatory	By:	/s/ Mark Polemeni Mark Polemeni, attorney-in-fact*	

<sup>\*</sup> Mark Polemeni is signing on behalf of Kenneth Griffin as attorney-in-fact pursuant to a power of attorney previously filed with the Securities and Exchange Commission on January 18, 2013, and hereby incorporated by reference herein. The power of attorney was filed as an attachment to a filing by Citadel Advisors LLC on Schedule 13G for TiVo Inc.