
OMB APPROVAL

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934
(Amendment No. 2)*

ON Semiconductor

(Name of Issuer)

Common

(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:

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 the disclosures provided in a prior cover page.

The information required in 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).

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1745 (8-07)

CUSIP No. 682189105

13G

1. NAMES OF REPORTING PERSONS

Thornburg Investment Management Inc.

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

Santa Fe, New Mexico

NUMBER OF 5. SOLE VOTING POWER

SHARES 16,403,519

BENEFICIALLY 6. SHARED VOTING POWER

OWNED BY NA

EACH 7. SOLE DISPOSITIVE POWER

REPORTING 16,403,519

PERSON 8. SHARED DISPOSITIVE POWER

WITH NA

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

16,403,519

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

[]

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

3.86%

12. TYPE OF REPORTING PERSON* (see instructions) IA

Item 1(a). Name of Issuer:

ON Semiconductor Corp

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

5005 E. McDowell Road, Phoenix AZ 85008

Item 2(a). Name of Person Filing:

Thornburg Investment Management Inc.

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

2300 North Ridgetop Road, Santa Fe, New Mexico 87506

Item 2(c). Citizenship:

USA

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

Common

Item 2(e). CUSIP Number: 682189105

Item 3. If this statement is filed pursuant to Sections 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

- (a) Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78o).
- (b) Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d) Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
- (e) An investment adviser in accordance with Section 240.13d-1(b)(1) (ii)(E);
- (f) An employee benefit plan or endowment fund in accordance with Section 240.13d-1(b)(1)(ii)(F);
- (g) A parent holding company or control person in accordance with Section 240.13d-1(b)(1)(ii)(G);
- (h) A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) Group, in accordance with Section 240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned: 16,403,519
- (b) Percent of class: 3.86%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote 16,403,519
 - (ii) Shared power to vote or to direct the vote NA
 - (iii) Sole power to dispose or to direct the disposition of 16,403,519
 - (iv) Shared power to dispose or to direct the disposition of NA

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 [X].

Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Item 8. Identification and Classification of Members of the Group.

Item 9. Notice of Dissolution of Group.

Item 10. Certifications.

- (a) The following certification shall be included if the statement is filed pursuant to Section 240.13d-1(b):

By signing below I certify that, to the best of my 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 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.

- (b) The following certification shall be included if the statement is filed pursuant to Section 240.13d-1(c):

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.

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.

January 7, 2010
(Date)

Sophia Franco-Marquez
(Signature)

Sophia Franco-Marquez/Compliance Specialist
(Name/Title)

Note. Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties for whom copies are to be sent.

Attention. Intentional misstatements or omissions of fact constitute federal criminal violations (see 18 U.S.C. 1001).