



DIVISION OF
CORPORATION FINANCE

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

Mail Stop 3030

April 27, 2009

VIA U.S. MAIL

Mr. Donald A. Colvin
Executive Vice President and Chief Financial Officer
ON Semiconductor Corporation
5005 East McDowell Road
Phoenix, Arizona 85008

Re: ON Semiconductor Corporation
Form 10-K for the year ended December 31, 2008
Filed February 27, 2009
File No. 000-30419

Dear Mr. Colvin:

We have completed our review of your Form 10-K and related filings and do not, at this time, have any further comments.

Sincerely,

Angela Crane
Accounting Branch Chief