



DIVISION OF
CORPORATION FINANCE

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549-4628

September 13, 2011

Via Facsimile

Andre Levasseur
Senior Vice President and Chief Financial Officer
Zarlink Semiconductor, Inc.
400 March Road
Ottawa, Ontario
Canada K2K 3H4

Re: Zarlink Semiconductor, Inc.
Form 20-F for the Fiscal Year Ended March 25, 2011
Filed June 6, 2011
File No. 001-8139

Dear Mr. Levasseur:

We refer you to our comment letter dated August 17, 2011 regarding business contacts with Iran. We have completed our review of this subject matter. We remind you that our comments or changes to disclosure in response to our comments do not foreclose the Commission from taking any action with respect to the company or the filing and the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States. We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ Cecilia Blye

Cecilia Blye, Chief
Office of Global Security Risk

cc: Amanda Ravitz
Assistant Director
Division of Corporation Finance