

October 1, 2010

Daniel J. Starks
Chairman, President, and Chief Executive Officer
St. Jude Medical, Inc.
One St. Jude Medical Drive
St. Paul, Minnesota 55117

**Re: St. Jude Medical, Inc.
Form 10-K for the Fiscal Year Ended January 2, 2010
Filed March 2, 2010
File No. 1-12441
Response Letter Dated September 28, 2010**

Dear Mr. Starks:

We refer you to our comment letter dated September 15, 2010 regarding business contacts with Cuba, Iran, Sudan, and Syria. We have completed our review of this subject matter and have no further comments at this time.

Sincerely,

Cecilia Blye, Chief
Office of Global Security Risk

cc: Martin James
Senior Assistant Chief Accountant
Division of Corporation Finance