Exhibit 32.2

CERTIFICATE OF CHIEF FINANCIAL OFFICER

In connection with the periodic report of Maxim Integrated Products, Inc. (the "Company") on Form 10-Q for the period ended September 24, 2011 as filed with the Securities and Exchange Commission (the "Report"), I, Bruce E. Kiddoo, Chief Financial Officer of the Company, hereby certify as of the date hereof, solely for purposes of Title 18, Chapter 63, Section 1350 of the United States Code, that to the best of my knowledge:

1. the Report fully complies with the requirements of Section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934, and
2. the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company at the dates and for the periods indicated.

This Certification has not been, and shall not be deemed, "filed" with the Securities and Exchange Commission.

Date: October 26, 2011

By: /s/ Bruce E. Kiddoo

Bruce E. Kiddoo
Senior Vice President and Chief Financial Officer

This certification shall not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended or the Securities Exchange Act of 1934, as amended.