



DIVISION OF
CORPORATION FINANCE

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

July 25, 2012

Via E-Mail

Mr. Charles D. Boynton
Executive Vice President and Chief Financial Officer
SunPower Corporation
77 Rio Robles
San Jose, California 95134

Re: SunPower Corporation
Form 10-K for the fiscal year ended January 1, 2012
Filed February 29, 2012
File No. 001-34166

Dear Mr. Boynton:

We have completed our review of your filings. 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 filings 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 filings to be certain that the filings include the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ Kevin L Vaughn

Kevin L. Vaughn
Accounting Branch Chief