



DIVISION OF
CORPORATION FINANCE

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

Mail Stop 3030

February 23, 2016

Via E-mail

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

Re: SunPower Corporation
Form 10-K for the Fiscal Year Ended December 28, 2014
Filed February 24, 2015
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/ Martin James

Martin James
Senior Assistant Chief Accountant
Office of Electronics and Machinery