



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

DIVISION OF
CORPORATION FINANCE

Mail Stop 3030

October 18, 2016

Via E-mail

Amit Meridor
Chief Executive Officer
Syneron Medical Ltd.
Industrial Zone, Tavor Building P.O. Box 550
Yokneam Illit 20692 Israel

Re: Syneron Medical Ltd.
Form 20-F for the Fiscal Year Ended December 31, 2015
Filed March 21, 2016
File No. 001-34559

Dear Mr. Meridor:

We have completed our review of your filing. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, actions or absence of action by the staff.

Sincerely,

/s/ Martin James

Martin James
Senior Assistant Chief Accountant
Office of Electronics and Machinery