## DIVISION OF CORPORATION FINANCE

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

Mail Stop 3030

January 22, 2018

Via E-mail
Harold C. Flynn, Jr.
President and Chief Executive Officer
BIOLASE, Inc.
4 Cromwell
Irvine, California 92618

Re: BIOLASE, Inc.

**Registration Statement on Form S-3** 

Filed January 16, 2018 File No. 333-222564

Dear Mr. Flynn:

This is to advise you that we have not reviewed and will not review your registration statement.

Please refer to Rules 460 and 461 regarding requests for acceleration. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Please contact Tom Jones at (202) 551-3602 with any questions.

Sincerely,

/s/ Tom Jones for

Amanda Ravitz
Assistant Director
Office of Electronics and Machinery

cc: Michael A. Gordon