



DIVISION OF
CORPORATION FINANCE

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

Mail Stop 3030

November 18, 2016

Thomas M. Patton
Chief Executive Officer
CAS Medical Systems, Inc.
44 East Industrial Road
Branford, CT 06405

**Re: CAS Medical Systems, Inc.
Registration Statement on Form S-3
Filed November 15, 2016
File No. 333-214614**

Dear Mr. Patton:

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 Tim Buchmiller at (202) 551-3635 with any questions.

Sincerely,

/s/ Tim Buchmiller for

Amanda Ravitz
Assistant Director
Office of Electronics and Machinery

cc: Michael Grundei, Esq.
Wiggin and Dana LLP