

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

July 28, 2010

Mr. Michael D. Dale President and Chief Executive Officer ATS Medical, Inc. 3905 Annapolis Lane North Minneapolis, MN 55447

Re: ATS Medical, Inc.

**Preliminary Proxy Statement on Schedule 14A** 

Filed May 25, 2010 File No. 000-18602

Dear Mr. Dale:

We have completed our limited review of your filing and do not have any further comments at this time. If you have any questions, please contact Daniel Morris at (202) 551-3314.

Sincerely,

Martin James Acting Assistant Director