

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

July 22, 2010

**ORDER GRANTING CONFIDENTIAL TREATMENT
UNDER THE SECURITIES EXCHANGE ACT OF 1934**

ATS Medical, Inc.

File No. 0-18602 -- CF# 25331

ATS Medical, Inc. submitted an application under Rule 24b-2 requesting an extension of a previous grant of confidential treatment for information it excluded from the Exhibits to a Form 10-K filed on March 7, 2006.

Based on representations by ATS Medical, Inc. that this information qualifies as confidential commercial or financial information under the Freedom of Information Act, 5 U.S.C. 552(b)(4), the Division of Corporation Finance has determined not to publicly disclose it. Accordingly, excluded information from the following exhibits will not be released to the public for the time periods specified:

Exhibit 10.44 through June 23, 2011

For the Commission, by the Division of Corporation Finance, pursuant to delegated authority:

Timothy S. Levenberg
Special Counsel