

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
March 21, 2011**

**ORDER GRANTING CONFIDENTIAL TREATMENT
UNDER THE SECURITIES ACT OF 1933**

Masimo Corporation

File No. 333-142171 - CF#26412

Masimo Corporation submitted an application under Rule 406 requesting an extension of a previous grant of confidential treatment for information it excluded from the Exhibits to a Form S-1 registration statement filed on April 17, 2007, as amended.

Based on representations by Masimo Corporation 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 exhibit will not be released to the public for the time period specified:

Exhibit 10.22 through December 31, 2011

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

Pamela Howell
Special Counsel