

Item 7.01. Regulation FD Disclosure

As previously announced, in February 2013, the Board of Directors of Masimo Corporation (“Masimo” or the “Company”) authorized the repurchase of up to six million shares of the Company’s common stock for a period of up to three years. In early 2013, Masimo repurchased one million shares of common stock under the repurchase program. Beginning May 5, 2014, and continuing through today, the Company has repurchased approximately one million additional shares. Although any future repurchases will be subject to the availability of stock, general market conditions, the trading price of the stock, available capital, alternative uses for capital and the Company’s financial performance, Masimo intends to continue to take advantage of favorable share repurchase opportunities as they arise.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, Masimo Corporation has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

MASIMO CORPORATION
a Delaware corporation

Date: May 20, 2014

By: /s/ MARK P. DE RAAD
Mark P. de Raad
Executive Vice President & Chief Financial Officer
(Principal Financial and Accounting Officer)