

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 2.02 Results of Operations and Financial Condition.

On August 6, 2013, Monolithic Power Systems, Inc. (“MPS”), a Delaware corporation, issued a press release regarding its financial results for the quarter ended June 30, 2013. A copy of the press release is attached hereto as Exhibit 99.1.

The information under this Item 2.02 of this Current Report on Form 8-K and the exhibit attached hereto are being furnished and shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the “1934 Act”), nor shall they be deemed incorporated by reference in any filing with the Securities and Exchange Commission under the 1934 Act or the Securities Act of 1933, as amended, except as shall be expressly set forth by specific reference in such filing.

Item 8.01 Other Events.

On August 6, 2013, MPS announced that its Board of Directors has approved the repurchase of up to \$100.0 million of the Company’s common stock over a two-year period, beginning in the third quarter of 2013. A copy of the press release is attached hereto as Exhibit 99.2.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit Description

99.1	Press release issued on August 6, 2013, announcing the financial results for the quarter ended June 30, 2013.
99.2	Press release issued on August 6, 2013, announcing the stock repurchase program.

Index to Exhibits

Exhibit Description

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SIGNATURES

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

Date: August 6, 2013 By: /s/ Meera Rao

Meera Rao
Chief Financial Officer

**(Principal Financial and Accounting Officer and
Duly Authorized Officer)**