

MONOLITHIC POWER SYSTEMS INC
Form SC 13G
February 12, 2016

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G
Under the Securities Exchange Act of 1934

(Amendment No.)*

Monolithic Power Systems, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

609839105

(CUSIP Number)

December 31, 2015

(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

x Rule 13d-1(b)

“ Rule 13d-1(c)

“ Rule 13d-1(d)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 (Act) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1. NAMES OF REPORTING PERSONS

RS Investment Management Co. LLC

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

943321067

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)

(a) " (b) "

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

NUMBER OF
SHARES
BENEFICIALLY OWNED BY

2,074,168

6. SHARED VOTING POWER

EACH
REPORTING
PERSON

7. SOLE DISPOSITIVE POWER

WITH

2,114,648

8. SHARED DISPOSITIVE POWER

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,114,648

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10. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions) "

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

12. 5.35%
TYPE OF REPORTING PERSON (see instructions)

IA

CUSIP No. 609839105

13G

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Item 1.

(a) Name of Issuer

Monolithic Power Systems, Inc.

(b) Address of Issuer's Principal Executive Offices

79 Great Oaks Blvd.

San Jose, CA 95119

Item 2.

(a) Name of Persons Filing

RS Investment Management Co. LLC

(b) Address of the Principal Office or, if none, residence

One Bush Street, Suite 900

San Francisco, CA 94104

(c) Citizenship

Delaware

(d) Title of Class of Securities

Common Stock

(e) CUSIP Number

609839105

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

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- (a) Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
- (b) Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d) Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
- (e) An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
- (h) A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned: 2,114,648
- (b) Percent of class: 5.35%
- (c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote 2,074,168.
 - (ii) Shared power to vote or to direct the vote 0.
 - (iii) Sole power to dispose or to direct the disposition of 2,114,648.
 - (iv) Shared power to dispose or to direct the disposition of 0.

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following " ".

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

The clients of RS Investment Management Co. LLC, including investment companies registered under the Investment Company Act of 1940 and separately managed accounts, have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the common stock of Monolithic Power Systems, Inc. To the knowledge of RS Investment Management Co. LLC, no individual client has an interest of more than five percent of the class of securities reported herein.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company.

Not applicable

Item 8. Identification and Classification of Members of the Group.

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certification.

(a) The following certification shall be included if the statement is filed pursuant to §240.13d-1(b):
By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

02/09/2016

Date

/s/ Randall Hegarty

Signature

Randall Hegarty / Chief Compliance Officer

Name/Title