

Sciammas Maurice
Form 4
January 04, 2010

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2005
Estimated average burden hours per response... 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
Sciammas Maurice

2. Issuer Name and Ticker or Trading Symbol
MONOLITHIC POWER SYSTEMS INC [MPWR]

5. Relationship of Reporting Person(s) to Issuer
(Check all applicable)

(Last) (First) (Middle)
6409 GUADALUPE MINES ROAD
(Street)

3. Date of Earliest Transaction (Month/Day/Year)
12/31/2009

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
Sr. V.P.of Sales and Marketing

SAN JOSE, CA 95120

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) | | | |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|--------|---|--------------------------------|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | 12/31/2009 | | M ⁽¹⁾ | | 6,776 | A | \$ 1.2 | 51,267 | D | |
| Common Stock | 12/31/2009 | | M ⁽¹⁾ | | 30,000 | A | \$ 1.2 | 81,267 | D | |
| Common Stock | 12/31/2009 | | S ⁽¹⁾ | | 36,776 | D | \$ 24.1432 ⁽²⁾ | 44,491 | D | |
| Common Stock | | | | | | | | 95,934 | I | by Family Trust ⁽³⁾ |
| Common Stock | | | | | | | | 24,671 | I | byC Sciammas |

| | | | |
|--------------|--------|---|--|
| Common Stock | 24,671 | I | 04 TRST (4) byM Sciammas 04 Trst (5) |
|--------------|--------|---|--|

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1474
(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | Amount or Number of Shares | |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|--------|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | |
| Incentive Stock Option (right to buy) | \$ 1.2 | 12/31/2009 | | M ⁽¹⁾ | 6,776 | 07/15/2003 07/17/2012 | | Common Stock | 6,776 |
| Incentive Stock Option (right to buy) | \$ 1.2 | 12/31/2009 | | M ⁽¹⁾ | 30,000 | 09/10/2004 09/11/2013 | | Common Stock | 30,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|--------------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Sciammas Maurice 6409 GUADALUPE MINES ROAD SAN JOSE, CA 95120 | | | Sr. V.P.of Sales and Marketing | |

Signatures

By: Rick Neely For: Maurice
Sciammas

01/04/2010

__Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

(1) In accordance with the reporting person's 10b5-1 trading plan.

The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line

- (2) range from \$24.04 to \$24.26. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price
- (3) Shares held by Sciammas Family Living Trust, Maurice Sciammas and Christina Sciammas, Trustees
- (4) Shares held by Christina Sciammas 2004 Trust, Christina Sciammas and Maurice Sciammas, Trustees
- (5) Shares held by Maurice Sciammas 2004 Trust, Maurice Sciammas and Christina Sciammas, Trustees

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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