

Sciammas Maurice
Form 4
May 15, 2009

FORM 4

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

OMB APPROVAL

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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)
05/15/2009

____ 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 Indirect Beneficial Ownership (Instr. 4) | | | |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|---------|---|--------------------------------|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | 05/15/2009 | | S | | 100 | D | \$ 18.2 | 145,834 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | | S | | 800 | D | \$ 18.23 | 145,034 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | | S | | 400 | D | \$ 18.24 | 144,634 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | | S | | 300 | D | \$ 18.25 | 144,334 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | | S | | 300 | D | \$ 18.26 | 144,034 | I | by Family Trust ⁽¹⁾ |

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| | | | | | | | | |
|--------------|------------|---|-------|---|-----------|---------|---|--------------------------------|
| Common Stock | 05/15/2009 | S | 1,607 | D | \$ 18.27 | 142,427 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 1,300 | D | \$ 18.28 | 141,127 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 800 | D | \$ 18.29 | 140,327 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 1,300 | D | \$ 18.3 | 139,027 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 1,000 | D | \$ 18.31 | 138,027 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 1,105 | D | \$ 18.32 | 136,922 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 700 | D | \$ 18.33 | 136,222 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 600 | D | \$ 18.34 | 135,622 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 700 | D | \$ 18.35 | 134,922 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 988 | D | \$ 18.36 | 133,934 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 500 | D | \$ 18.37 | 133,434 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 800 | D | \$ 18.38 | 132,634 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 200 | D | \$ 18.39 | 132,434 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 500 | D | \$ 18.4 | 131,934 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 200 | D | \$ 18.41 | 131,734 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 100 | D | \$ 18.415 | 131,634 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 800 | D | \$ 18.42 | 130,834 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 300 | D | \$ 18.43 | 130,534 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 100 | D | \$ 18.44 | 130,434 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | S | 1,200 | D | \$ 18.45 | 129,234 | I | by Family Trust ⁽¹⁾ |
| | 05/15/2009 | S | 1,400 | D | \$ 18.46 | 127,834 | I | |

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| | | | | | | | | | |
|--------------|------------|--|---|-------|---|----------|---------|---|--------------------------------|
| Common Stock | | | | | | | | | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | | S | 1,412 | D | \$ 18.47 | 126,422 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | | S | 1,201 | D | \$ 18.48 | 125,221 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | | S | 1,500 | D | \$ 18.49 | 123,721 | I | by Family Trust ⁽¹⁾ |
| Common Stock | 05/15/2009 | | S | 2,400 | D | \$ 18.5 | 121,321 | I | by Family Trust ⁽¹⁾ |

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.

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(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) | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Owned Beneficially (Instr. 5) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |

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: Adriana Chiocchi For: Maurice Sciammas
05/15/2009

__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) Shares held by Sciammas Family Living 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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