

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 <sup>(1)</sup>
Common Stock	05/15/2009		S		800	D	\$ 18.23	145,034	I	by Family Trust <sup>(1)</sup>
Common Stock	05/15/2009		S		400	D	\$ 18.24	144,634	I	by Family Trust <sup>(1)</sup>
Common Stock	05/15/2009		S		300	D	\$ 18.25	144,334	I	by Family Trust <sup>(1)</sup>
Common Stock	05/15/2009		S		300	D	\$ 18.26	144,034	I	by Family Trust <sup>(1)</sup>

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

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

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

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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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