FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
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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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Sciammas Maurice							2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]										ationship of Reporti k all applicable) Director Officer (give title		10% (Issuer Owner (specify
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 05/31/2011											w) V.P.of Sale		below)
(Street) SAN JOS (City)			95120 (Zip)				endm	nent, Da	ate o	of Origi	inal F	iled (Month/D	Line)	Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date				2. Transaction Date (Month/Day/Y	ear) E	2A. Deemed Execution Date, if any (Month/Day/Year)			c	ransac ode (In		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			l and Secu Bene Owne		cially I	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
									ode	v	Amount	(A) or (D)	Price	•	Following Reported Transaction(s) (Instr. 3 and 4)		(111501. 4)		(Instr. 4)	
Common Stock				05/31/201	1					S ⁽¹⁾		885	D	\$17	.0715	8	7,969		I	by Family Trust ⁽²⁾
Common	Stock			05/31/201	1					S ⁽¹⁾		350	D	\$17	.0715	2	1,521		I	byC Sciammas 04 TRST ⁽³⁾
Common Stock				05/31/201	1					S ⁽¹⁾		350	D	\$17	.0715	21,521			I	byM Sciammas 04 Trst ⁽⁴⁾
Common												11	5,658		D					
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
1. Title of 2. 3. Transaction Derivative Conversion Date Execution Date Execution Date if any				Deemed ecution Date,	4. Transactio		on cir. [5. Numb		6. Dat	e Exe	rcisable and	7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		8. of Do Se (In	Price erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	, ((A) (D)		Date Exercisable		Expiration Date	Title	Amou or Numb of Share	er							

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. Shares held by Sciammas Family Living Trust, Maurice Sciammas and Christina Sciammas, Trustees
- 3. Shares held by Christina Sciammas 2004 Trust, Christina Sciammas and Maurice Sciammas, Trustees
- 4. Shares held by Maurice Sciammas 2004 Trust, Maurice Sciammas and Christina Sciammas, Trustees

By: Saria Tseng For: Maurice Sciammas 05/31/2011

** Signature of Reporting Person Da

Date

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

- * 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).

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

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 Number.