FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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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

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

Name and Address of Reporting Person* Sciammas Maurice					MO	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									ck all app	ationship of Report k all applicable) Director Officer (give title		10% (Issuer Dwner (specify
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD				3. Date of Earliest Transaction (Month/Day/Year) 02/01/2011									belo	w)	below es and Marketi)		
(Street) SAN JOS (City)			5120	1	4. If <i>i</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(=:-97	City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Tra			2. Transacti	on Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, and 5)			A) or	5. Amo Securi Benefi Owned			Direct	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) (D)	or Pr	ice	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr.	4)	(Instr. 4)
Common	Stock			02/01/20)11				S		1,588(1)	D	\$	14.63	74	4,205		D	
Common	Stock														9:	5,934		I	by Family Trust ⁽²⁾
Common Stock														24	24,671		I	byC Sciammas 04 TRST ⁽³⁾	
Common Stock													24,671		I		byM Sciammas 04 Trst ⁽⁴⁾		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of 2. 3. Transaction 3A. Deemed Execution Date,			Code (ansaction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			1			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		tr.	Price f erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	y Di (I) (4)	wnership orm: irect (D) r Indirect (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amor or Numl of Share	er							

Explanation of Responses:

- 1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- 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 02/01/2011

** Signature of Reporting Person D

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.