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

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						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									eck all app	olicable)		Owner (specify
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 02/03/2011									helo	below) below) Sr. V.P.of Sales and Marketin		w)
(Street) SAN JOSE CA 95120					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									dividual or Joint/Group Filing (Check Applicable) Y Form filed by One Reporting Person			erson
(City)	(Sta	ate) (Z	Z ip)													on filed by Mo	ore than One R	eporting
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date				2. Transaction Date (Month/Day/	Year) i	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (ADisposed Of (D) (Instr. 3 and 5)				Securi Benefi Owned	cially I	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount	(A) (D)	or F	rice			(Instr. 4)	(Instr. 4)	
Common Stock				02/03/2011					S		267(1)	I) (614.7 3	3 7	1,776	D	
Common Stock														9:	5,934	I	by Family Trust ⁽²⁾	
Common Stock															24	4,671	I	byC Sciammas 04 TRST ⁽³⁾
Common Stock															24	1, 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)																	
Derivative Conversion Date Execution Date, Security or Exercise (Month/Day/Year) if any					ransaction of code (Instr. Derivativ			Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		str.	3. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4)	Beneficial Ownership	
		Code	v	(A)	(D)	Date Exercisable		Expiration Date	Title	or Nun of Sha								

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 02/03/2011 <u>Sciammas</u>

Date

** Signature of Reporting Person

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.