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					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									k all app Direc) to Issuer % Owner her (specify
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 08/06/2012									below) below) Sr. V.P.of Sales and Marketing			′
(Street) SAN JOSE CA 95119					4. If Amendment, Date of Original Filed (Month/Day/Year)									rvidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(Sta	ate) (Z	ip)											Peis	on		
			e I - Non-Deriv	_				uire	ed, D				cially				
			2. Transaction Date (Month/Day/Yea	2A. Deemed Execution Date, if any (Month/Day/Yea		Date,	ate, Tran			4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			Beneficially Owned		ities icially d	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
								Code		Amount	ount (A) or Price			Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)
Common	Stock		08/06/2012				S(1)		393	D	\$20.27	98(2)	12	22,757	D	
Common Stock														7.	4,004	I	by Family Trust
Common Stock														1	6,371	Ι	byC Sciammas 04 TRST
Common Stock														16,371		I	byM Sciammas 04 Trst
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, or Exercise (Month/Day/Year) if any				4. Transac Code (Ir 8)	5. Number			er 6. Date Exercisable and Expiration Date (Month/Day/Year)			Amor Secu Unde Deriv Secu	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		of dei Derivative Security (Instr. 5) Ow Fo Re	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
Co		Code	v	(A)	Date (D) Exercisa			Expiration e Date	Title	or Numbe of Shares	er						

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$20.25 to \$20.29. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Saria Tseng For: Maurice Sciammas

08/06/2012

** Signature of Reporting Person

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.