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

1. Name and Address of Reporting Person* Sciammas Maurice (Last) (First) (Middle) 79 GREAT OAKS BLVD					MOI [MP 3. Dat 08/20	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 08/20/2012 4. If Amendment, Date of Original Filed (Month/Day/Year)									5. Relationship of Report Check all applicable) Director X Officer (give title below) Sr. V.P.of Sale 6. Individual or Joint/Grou		10 ^o Ott bel es and Mark	6 Owner er (specify ow) eting
(Street) SAN JOS (City)		CA 95119 (State) (Zip)														e) 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																	
1. Title of Security (Instr. 3) 2. Transac			2. Transact	ion	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (AD Disposed Of (D) (Instr. 3 and 5)			d (A) o		ount of ties cially	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A (D) or)	Price	Repor Trans		(msu. 4)	(IIIStr. 4)
Common	Stock			08/20/2	012				S ⁽¹⁾		392		D	\$22	1	19,309	D	
Common Stock															7	4,004	I	by Family Trust
Common	Stock														1	6,371	I	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 Derivative Security (Instr. 3)	itle of 2. 3. Transaction JaA. Deemed to stative Conversion Date Execution Date, urity or Exercise (Month/Day/Year) if any			4. Transac	ransaction		mber rative rities ired r osed) . 3, 4		xerci	sable and 7. Title an te Amount of Securities Underlyin Derivative Security (1 3 and 4)		le and unt of rities rlying ative rity (Ir	·	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownersh Form: Direct (E or Indire (I) (Instr 4)	Beneficial Ownership ct (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nu of	mber ares				

Explanation of Responses:

1. In accordance with the reporting person's 10b5-1 trading plan.

By: Saria Tseng For: Maurice Sciammas 08/21/2012

** 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.