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						Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] Date of Earliest Transaction (Month/Day/Year) 08/13/2012									5. Relationship of Repor (Check all applicable) Director X Officer (give title below) Sr. V.P.of Sal			10% Ov		Owner (specify)
(Street) SAN JOS (City)			95119 (Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year)										lividual or Joint/Group Filing (Check Applicab Form filed by One Reporting Person Form filed by More than One Reporting Person				son
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye					Executio			∍,	3. Transad Code (I 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			and Secur Benef Owne		cially	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership	
										Code	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)
Common	Stock			08/13/201	2					S ⁽¹⁾		1,173	D	\$20.	5813	11	9,701		D	
Common Stock															74	4,004		I	by Family Trust	
Common Stock																10	5,371		I	byC Sciammas 04 TRST
Common Stock																16,371		I		byM Sciammas 04 Trst
		Та	ble	II - Derivat								oosed of, convertib				wned				
1. Title of Derivative Security (Instr. 3)	of 2. 3. Transaction 3A. Deemed Execution Date, ty or Exercise (Month/Day/Year) if any			4. Trai	5. Number of Code (Instr. Derivative			rative rities ired r osed)	6. Da Expir (Mon		cisable and 7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		8. of De Se (In	Price derivative Securities Beneficiall Owned Following Reported Transactio (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 Exercisab		Expiration Date	Title	of Shares						

Explanation of Responses:

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

By: Saria Tseng For: Maurice 08/13/2012 Sciammas

** Signature of Reporting Person

Date

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

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.

 $^{^{\}star}$ 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).