FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

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				<u>M</u>	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC									Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last)	(Fir	First) (Middle)				[MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 05/02/2013									belo				ner (specify low) eting
(Street) SAN JOSE CA 95119 (City) (State) (Zip)			4.	4. If Amendment, Date of Original Filed (Month/Day/Year)										dividual or Joint/Group Filing (Check Applicab Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I - Non-Deriv	/ativ	e Se	ecur	rities	Ac	quire	d, Di	isposed o	f, or B	enefi	cially	/ Own	ed			
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Y	n 'ear)	2A. Deemed Execution Date, if any (Month/Day/Year)		3 T	Transaction Dispos Code (Instr. 5)			Securities Acquired (A) or sposed Of (D) (Instr. 3, 4 and			5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								c	ode	v	Amount (A) or (D)		Price		Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(11150: 4)
Common	Stock		05/02/201	13					S ⁽¹⁾		1,373	D	\$23.	.1708	11	4,007		D	
Common	Stock		05/02/201	13					A		144(2)	A	\$	0.0	11	4,151		D	
Common	Stock		05/02/201	13					S ⁽¹⁾		77	D	\$2	3.17	11	4,074		D	
Common	Stock		05/03/201	13					S ⁽¹⁾		329	D	\$24	4.18	11	3,745		D	
Common Stock		05/03/201	13				A		29(2)	A	\$	\$0.0		113,774		D			
Common	Stock		05/03/201	13					S ⁽¹⁾		17	D	\$24	4.18	11	3,757		D	
Common	Stock														4	4,004		I	by Family Trust
Common Stock																14,371		I	byC Sciammas 04 TRST
Common Stock															1	14,371			byM Sciammas 04 Trst
		Та	ble II - Derivat								osed of, convertib				Owned				
1. Title of 2. 3. Transaction Date 3A. Deemed 4. Execution Date, Transaction Date 4.			4. Tran Code	5. Numb ransaction of ode (Instr. Derivati		nber itive ities red sed 3, 4	6. Dat	e Exe	rcisable and	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		8. of De Se (In		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	y 1	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
		Code	Code V ((A)	(D)	Date Exercisable		Expiration Date	Title	or Numb of Share								

Explanation of Responses:

- 1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- 2. Equitable stock dividend adjustment approved by the Board of Director as a result of dividend Payment to shareholders on December 28, 2012. Stock dividends will release according to the same vesting schedule as the original grants.

By: Saria Tseng For: Maurice Sciammas

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.