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					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]								k all ap Dire	plicable)	109	erson(s) to Issuer  10% Owner  Other (specify			
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 05/07/2013							X	belo	w)		ow)			
(Street) SAN JOSE CA 95119					4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applica Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting						
(City)	(St	ate) (2	Zip)											Person					
		Tabl	e I - Non-Deriv	ative	Secu	rities A	cquire	d, D	isposed o	f, or E	Benefi	cially	/ Own	ed					
1. Title of Security (Instr. 3)		tr. 3)	2. Transaction Date (Month/Day/Ye	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		Disposed Of (D)		Acquired (A) or (D) (Instr. 3, 4 and		5. Amount of Securities Beneficially Owned		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		05/07/201	3			S <sup>(1)</sup>		696	D	\$24	1.24	11	13,061	D				
Common	Stock		05/08/201	3			S <sup>(1)</sup>		1,697	D	\$24.	1012	11	11,364	D				
Common	Stock		05/08/201	3			A		151(2)	A	\$(	0.0	11	11,515	D				
Common	Stock		05/08/201	3			<b>S</b> <sup>(1)</sup>		81	D	\$2	4.1	11	11,434	D				
Common	Stock												4	4,004	I	by Family Trust			
Common	Stock												1	4,371	I	byC Sciammas 04 TRST			
Common Stock													1	4,371	I	byM Sciammas 04 Trst			
		Та	ble II - Derivati (e.g., pu						posed of, convertib				Owned	I	,	,			
1. Title of Derivative Security (Instr. 3)	Conversion Date Ex or Exercise (Month/Day/Year) if a		3A. Deemed Execution Date,	4. Transa Code (l	5. Numboransaction of Operivativ		er 6. Date Exe Expiration (Month/Day		ercisable and Date	т —		8. of De Se (In	Price erivative curity str. 5)	derivative Securities ity Beneficial	Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Beneficial Ownership			
				Code	v	(A) (D)	Date Exerc	isable	Expiration e Date	Title	Amou or Numb of Share	er							

## **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 05/08/2013

<u>Sciammas</u>

\*\* 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.