FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL								
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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

Sciammas Maurice  (Last) (First) (Middle)  79 GREAT OAKS BLVD						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR  3. Date of Earliest Transaction (Month/Day/Year) 02/11/2013  4. If Amendment, Date of Original Filed (Month/Day/Year)									5. Relationship of Reporting Person(s) to Issuer Check all applicable)  Director 10% Owner  X Officer (give title Other (specify below) below)  Sr. V.P.of Sales and Marketing  5. Individual or Joint/Group Filing (Check Applicable ine)  X Form filed by One Reporting Person  Form filed by More than One Reporting Person				
1. Title of S	Security (Inst		e I - I	Non-Deriv			ritie:	s Acc	quired,	Dis	posed of					ount of	6. Ov	wnership	7. Nature of
Date				Date (Month/Day	/Year) i	r) if any		tion Date, h/Day/Year)	Transaction Code (Instr. 8)		Disposed Of (D) (Instr. 3 and 5)			. 3, 4	Benef Owne	Securities Beneficially Owned		n: Direct or rect (I)	Indirect Beneficial Ownership
									Code	v	Amount	ount (A) or (D)		Price	Repo	Following Reported Transaction(s) (Instr. 3 and 4)		r. 4)	(Instr. 4)
Common	Stock			02/11/20	013				A		45,412	1)	A	\$0.0	) 1:	50,148		D	
Common	Stock														4	4,004		I	by Family Trust
Common	ommon Stock													1	4,371		I	byC Sciammas 04 TRST	
Common	Common Stock														14,371			I	byM Sciammas 04 Trst
		Та	ble II	l - Derivati (e.g., pu							sed of, o				Owne	d l			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execu	Deemed 4. cution Date, Tran		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)				Exerc on Da Day/Y	isable and ate 'ear)	able and 7. Title and Amount of Securities Underlying Derivative Security (Instra 3 and 4)  Amount of Security (Instra 3 and 4)		nstr.	8. Price of Derivative Security (Instr. 5)	f derivative erivative Securities ecurity Beneficial		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

## Explanation of Responses:

1. 25% of the Restricted Stock Units shall vest at 1/8th quarterly following the Vesting Commencement Date, provided that the Grantee continues to be a Service Provider from the Grant Date through each applicable vesting date. Additionally, 75% of the Restricted Stock Units were granted and shall be subject to satisfaction of performance-based vesting criteria based on achievement of certain long term Company performance targets, as determined by the Compensation Committee of the Company, and additional time vesting subsequent to the achievement of those performance targets, provided that the Grantee continues to be a Service Provider from the grant date through each applicable vesting date.

By: Meera Rao For: Maurice Sciammas 02/13/2013

\*\* Signature of Reporting Person D

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.

 $<sup>^{\</sup>star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).