FORM 4

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

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
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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

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) 11/01/2012									c all app Direct Offict below	cer (give title O		% Owner ner (specify low)
(Street) SAN JOS (City)			5119 ip)	4. If <i>i</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indi Line) X	lividual or Joint/Group Filing (Check Applicabl Form filed by One Reporting Person Form filed by More than One Reporting Person			erson
		Tabl	e I - Non-Deriv	ative	Secu	ırities	Acc	quire	ed, C	Disposed o	of, or	Benefic	ially	Own	∍d		
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Yea	Exe er) if a	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)			4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			and 5) Secur Benef Owne		ficially d	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
							Co	de	v	Amount	(A) or (D)	Price				(Instr. 4)	(Instr. 4)
Common	Stock <sup>(1)</sup>		11/01/2012				S	(2)		1,287	D	\$17.34	412	11	7,508	D	
Common	Stock <sup>(1)</sup>		11/05/2012				S	(3)		1,775	D	\$19.03	41(4)	11	5,733	D	
Common	Stock													7.	4,004	I	by Family Trust
Common	Stock													1	6,371	I	byC Sciammas 04 TRST
Common	Stock													1	6,371	I	byM Sciammas 04 Trst
		Та	ble II - Derivat				•		•	posed of,			•	wned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)	ction	5. Nur of Deriva Secur Acqui (A) or Dispo of (D) (Instr. and 5)	mber ative ities red sed	6. Date	ate Exiration	ercisable and In Date ay/Year)	7. Titi Amou Secur Unde Deriv Secur 3 and	le and int of rities rlying ative rity (Instr.	8. Fof Der Sec (Ins	Price vivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership

## Explanation of Responses:

- 1. 50% of the Performance Units are subject to vest on the first anniversay of the Grant Date and 50% of the Performance Units are subject to vest on the second anniversary of the Grant Date, provided that the Grantee continues to be a service provider on such dates.
- 2. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- 3. In accordance with the reporting person's 10b5-1 trading plan.
- 4. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$18.69 to \$19.31. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Meera Rao For: Maurice Sciammas 11/05/2012

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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).

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 ir	nformation contained in this form	n are not required to respond	unless the form displays a curre	ntly valid OMB Number.