## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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	dress of Reporting	Person <sup>*</sup>	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>Sciammas</u>	Maurice		[MPWR]		Director	10% Owner			
(Last) 79 GREAT O	(First) AKS BLVD	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 08/07/2013	X	Officer (give title below) Sr. V.P.of Sales and	Other (specify below) d Marketing			
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line)	vidual or Joint/Group Fil	ing (Check Applicable			
SAN JOSE	CA	95119		X	Form filed by One Re	porting Person			
(City)	(State)	(Zip)	—		Form filed by More the Person	an One Reporting			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

			•	•	•		•			
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transac Code (Ir 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			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	08/08/2013		A		150(1)	A	\$0.0	106,391	D	
Common Stock	08/08/2013		<b>S</b> <sup>(2)</sup>		79	D	\$28.28	106,312	D	
Common Stock	08/08/2013		<b>S</b> <sup>(2)</sup>		1,674	D	\$28.2812	104,638	D	
Common Stock	08/07/2013		S <sup>(3)</sup>		10,000	D	\$28	12,746	Ι	by Family Trust

### Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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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. Transact Code (In 8)		of Deriv Secu Acqu (A) of Dispo of (D)	rities ired r osed ) . 3, 4	Expiration Date (Month/Day/Year) ee ed		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		of derivative Derivative Securities Security (Instr. 5) Owned Following Reported	Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

1. 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.

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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.

By: Saria Tseng For: Maurice	08/09/2013
Sciammas	08/09/2013

\*\* Signature of Reporting Person Date

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

 $^{\ast}$  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.

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