## 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	J 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)							
	Maurice		[ MPWR ]		Director	10% Owner					
(Last) 79 GREAT O	(First) AKS BLVD	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 08/04/2016	X	all applicable) Director 10% Own Officer (give title Other (spe below) below) Sr. V.P.of Sales and Marketing vidual or Joint/Group Filing (Check App Form filed by One Reporting Person Form filed by More than One Report Person	below)					
(Street) SAN JOSE CA 95119		95119	<ul> <li>4. If Amendment, Date of Original Filed (Month/Day/Year)</li> </ul>	6. Indi Line) X	Ne) X Form filed by One Reporting Person						
(City)	(State)	(Zip)									
	Sciammas Maurice       INCROCLIFINO FOWERCOFOTEINO       Director       10% Owner         (Last)       (First)       (Middle)       3. Date of Earliest Transaction (Month/Day/Year)       Director       Officer (give title Other (specify below)         79 GREAT OAKS BLVD       3. Date of Earliest Transaction (Month/Day/Year)       Sr. V.P.of Sales and Marketing         (Street)       4. If Amendment, Date of Original Filed (Month/Day/Year)       6. Individual or Joint/Group Filing (Check Applicable Line)         X       Form filed by One Reporting Person Form filed by More than One Reporting Person										

### 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. Transaction Code (Instr. 8)		4. Securities Disposed O 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	08/04/2016		<b>S</b> <sup>(1)</sup>		356	D	\$72.2134	338,526	D	
Common Stock	08/05/2016		<b>S</b> <sup>(1)</sup>		2,983	D	\$72.7302	335,543	D	
Common Stock	08/08/2016	ĺ	<b>S</b> <sup>(1)</sup>		2,981	D	\$72.6398	332,562	D	
Common Stock								2,000	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. Transací Code (In 8)		of Deriv Secu Acqu (A) o Dispo of (D	rities ired r osed ) :. 3, 4	Expiration Date (Month/Day/Year) s		7. Title Amour Securi Underl Deriva Securi 3 and 4	nt of ties ying tive ty (Instr.	of	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	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. The reported sales were to cover taxes upon the vesting of restricted stock units, as required by the Company's equity incentive plans.

By: Saria Tseng For: Maurice 08/08/2016

**Sciammas** 

\*\* 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.