

**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

<b>1. Name and Address of Reporting Person*</b> <u>Sciammas Maurice</u>  (Last) (First) (Middle) <u>79 GREAT OAKS BLVD</u>  (Street) <u>SAN JOSE CA 95119</u>  (City) (State) (Zip)	<b>2. Issuer Name and Ticker or Trading Symbol</b> <u>MONOLITHIC POWER SYSTEMS INC</u> <u>[ MPWR ]</u>	<b>5. Relationship of Reporting Person(s) to Issuer</b> (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Sr. V.P.of Sales and Marketing</u>
	<b>3. Date of Earliest Transaction (Month/Day/Year)</b> <u>05/02/2014</u>	
	<b>4. If Amendment, Date of Original Filed (Month/Day/Year)</b>	<b>6. Individual or Joint/Group Filing (Check Applicable Line)</b> <input checked="" type="checkbox"/> 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 Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	05/02/2014		S <sup>(1)</sup>		1,696	D	\$36.7695	92,076	D	
Common Stock	05/05/2014		S <sup>(2)</sup>		312	D	\$36.25	91,764	D	
Common Stock	05/05/2014		S <sup>(2)</sup>		400	D	\$36.82	91,364	D	
Common Stock	05/05/2014		S <sup>(2)</sup>		798	D	\$36.8201	90,566	D	
Common Stock	05/05/2014		S <sup>(1)</sup>		331	D	\$36.2501	90,235	D	
Common Stock	05/05/2014		S <sup>(1)</sup>		17	D	\$36.25	90,218	D	
Common Stock	05/05/2014		S <sup>(1)</sup>		724	D	\$36.2501	89,494	D	
Common Stock	05/06/2014		S <sup>(2)</sup>		307	D	\$36.41	89,187	D	
Common Stock	05/06/2014		S <sup>(1)</sup>		701	D	\$36.4106	88,486	D	
Common Stock								2,000	I	by Family Trust

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

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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		Date Exercisable	Expiration Date					
						(A) (D)			Amount or Number of Shares				

**Explanation of Responses:**

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.  
 2. In accordance with the reporting person's 10b5-1 trading plan.

By: Saria Tseng For: Maurice Sciammas 05/06/2014

\*\* 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.

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