FORM 4

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

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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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. Name ar	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]											all app	licable)	ng Person(s) to 10% C Other						
(Last) 79 GREA	(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 12/16/2016									belov	v)	Asia	below)	
(Street) SAN JOS (City)			5119 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)										dividual or Joint/Group Filing (Check Applicable 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. Transac Date (Month/Da						Execuif any	Deemed cution Date, y nth/Day/Year)		Transaction Disp			rities Acquired ( ed Of (D) (Instr. 3			3, 4 Se Be Ov		. Amount of ecurities eneficially owned		Ownership m: Direct or irect (I)	7. Nature of Indirect Beneficial Ownership
						Code	v	Amount	(A (E	() or ()	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)			
Common Stock				12/16/2	2/16/2016				S <sup>(1)</sup>		71		D	\$84.59		2,209			I	by Spouse
Common Stock															272,390			D		
	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	nversion Date Execution Date, if any (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (A) Dis of (				of Deriv Secu Acqu (A) o Dispo of (D (Instrand !	r osed ) ·. 3, 4	6. Date Expiration (Month/I)  Date Exercisa	or	ount nber	unt ber		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)				

## 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: Deming 12/19/2016

\*\* 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.