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

1. Name at Xiao D	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]										heck	all app	licable)	ng Person(s) to I 10% C Other		wner				
(Last) 79 GREA	3. Date of Earliest Transaction (Month/Day/Year) 10/05/2016										X	belov	v)	Asia	below) Asia Operations					
(Street) SAN JOS (City)			5119 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Indivine) X	,				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)  2. Transact Date (Month/Day					//Year)	Execuif any	Deemed ution Date, / th/Day/Year)		Transaction Dispos Code (Instr. and 5)			rities Acquired ( ed Of (D) (Instr.			3, 4 Se Be		5. Amount of Securities Beneficially Owned		Ownership m: Direct or irect (I)	7. Nature of Indirect Beneficial Ownership
						Code	v	Amount		A) or ))	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)			
Common Stock 10				10/05/2	016				S <sup>(1)</sup>		89		D	\$79.14		183			I	by Spouse
Common Stock															271,217			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)	e Conversion or Exercise (Month/Day/Year) Frice of Derivative Security				sinsaction de (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date Expiration (Month/I)  Date Exercisa	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amoun or Numbe of Title Shares			nt er		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 10/05/2016

\*\* 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.