FORM 4

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

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

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	MO   MP	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]										all app	olicable) etor er (give title	ng Pei	Person(s) to Issuer  10% Owner  Other (specify below)					
(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 09/16/2015											s. of MPS	Asia (	′	
(Street)					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicabl Line)					
SAN JOS	SE CA	A 9	5119													Form filed by One Reporting Person Form filed by More than One Reportin				
(City)	(St	ate) (Z	Zip)													Pers	on			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
Date				2. Transact Date (Month/Day	y/Year)	Execuif any	Deemed ecution Date, ny onth/Day/Year)		Transaction Disposed Code (Instr. and 5)			ities Acquired ( d Of (D) (Instr. :			3, 4 S		5. Amount of Securities Beneficially Owned Following		vnership n: Direct r ect (I) r. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
							Code	v	Amount		(A) or (D)		,	Reported Transaction(s) (Instr. 3 and 4)		(.71001. 4)		(111341. 4)		
Common Stock 09/16					015				S <sup>(1)</sup>		72		D	\$51.44		999			I	by Spouse
Common Stock																239,851			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)	vative irity or Exercise (Month/Day/Year) r. 3) Price of Derivative Security  Date (Month/Day/Year)  Execution Date, if any (Month/Day/Year)			Code (I 8)	ransaction of Code (Instr. Derivative			6. Date Expiration (Month/D	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amoun or Numboof Title Shares			nt er		9. Number of derivative securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		0. wnership orm: irect (D) r Indirect ) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

## Explanation of Responses:

 $1. \ Shares \ sold \ to \ pay \ tax \ obligations \ resulting \ from \ the \ vesting \ of \ restricted \ stock \ units.$ 

By: Saria Tseng For: Deming Xiao 09/18/2015

Xiao

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.