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

(Last) 79 GREA	9 GREAT OAKS BLVD  Street) AN JOSE CA 95119						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]  3. Date of Earliest Transaction (Month/Day/Year) 12/17/2015  4. If Amendment, Date of Original Filed (Month/Day/Year)									Relationship of Reporting Person(s) to Issuer neck all applicable)  Director 10% Owner  X Officer (give title Other (specify below)  Pres. of MPS Asia Operations  Individual or Joint/Group Filing (Check Applicable lee)  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/				tion	on 2A. Deemed Execution Date,			3. 4. Securi Transaction Disposed Code (Instr. and 5)			es Acqui	red (A) o	5. Amou Securitie Benefici Owned		nt of es ally		: Direct r ect (I)	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A) (D)	Price	Followi Reporte Transae (Instr. 3		ed etion(s)		. 4)	(Instr. 4)		
Common Stock 12/17/20					015(1)	15(1)			M <sup>(1)</sup>		43,200	1) <b>A</b>	\$0.0	)	259,324		D				
Common Stock												7(		705			by Spouse				
			Tab								sed of, or nvertible			wned							
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	emed ion Date, //Day/Year)	4. Transac Code (Ir 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Expirati (Month/	on D		7. Title Amount Securiti Underly Derivati Security and 4)	of es ing	of Deriva Secur	. Price f Perivative ecurity nstr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti	e s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	V (A		(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares			(Instr. 4)	Si1(3)				
Performance Shares	(2)	12/17/2015 <sup>(1)</sup>			M <sup>(1)</sup>			43,200 <sup>(1)</sup>	(2)		(2)	Common Stock	43,200	\$0.	0	0		D			

## **Explanation of Responses:**

- 1. Each performance share represents a contingent right to receive a restricted stock unit upon MPWR's common stock achieving a 20-day average closing price of \$56.00 per share from January 1, 2014 through December 31, 2018 (the "Performance Period"). Credited performance units are still subject to an additional, quarterly, five-year time-based vesting schedule beginning January 1, 2019, subject to acceleration under certain circumstances.
- 2. Each performance unit will vest as follows: one share of MPWR common stock will be credited for each performance unit if the price of MPWR common stock achieves a 20-day average closing price of \$40.00 per share from January 1, 2014 through December 31, 2018 (the "Performance Period"), and up to four additional shares will be credited for each performance unit if the 20-day average closing price reaches \$43.00, \$47.00, \$52.00 and \$56.00 (that is, one share per price level) during the Performance Period. Credited performance units are then subject to an additional, quarterly, five-year time-based vesting schedule beginning January 1, 2019, subject to acceleration under certain circumstances.

By: Saria Tseng For: Deming 12/21/2015

\*\* Signature of Reporting Person

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.