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 Xiao D	MO	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR									k all app Dired	olicable) ctor	ng Perso	Person(s) to Issuer 10% Owner						
(Last) 79 GREA	(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 08/10/2016									er (give title w) s. of MPS A	Asia Op	Other (specify below) sia Operations		
(Street) SAN JOS (City)		CA 95119 (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)									I or Joint/Group Filing (Check Applicable rm filed by One Reporting Person rm filed by More than One Reporting rson				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/Y					Year) i	Execution Date,			3. Transaction Code (Instr. 8) 4. Securiti Disposed 5)					4 and Secur Benef Owne		ficially ed	6. Own Form: (D) or Indirection	Direct t (I)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) (D)	Pric	e	Repo	Following Reported Transaction(s) (Instr. 3 and 4)		•,	(Instr. 4)	
Common Stock 08/10/20						16			S ⁽¹⁾		6,342	D	\$7	3.14(2)	2	271,186)		
Common											367]		by Spouse					
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)	c Conversion Date Execution Date, or Exercise (Month/Day/Year) if any			5. Number of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3 and 5)		ative rities ired osed	6. Date Expirati (Month)	on D	rear)	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amou or Numb of Title Share:		of De Sec (In	Price 9. Number of derivative Securities Eurity Str. 5) General Reported Transaction (Instr. 4)		Owr For Dire or II (I) (I 4)	ership n: ct (D) ndirect nstr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$72.85 to \$73.66. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Saria Tseng For: Deming 08/12/2016 Xiao

** 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.