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 Xiao D (Last) 79 GREA (Street) SAN JOS	MOI [MP 3. Dat 09/16	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 09/16/2016 4. If Amendment, Date of Original Filed (Month/Day/Year)									X	all app Direct Office below Pres	ctor er (give title w) s. of MPS A	10% Owner Other (specify below) Asia Operations P Filing (Check Applicable e Reporting Person						
(City)	(Sta	ate) (Z	ľip)													Form filed by More than One Reporting Person				
		Table	e I - N	lon-Deriv	ative S	Secu	rities	s Acc	uired,	Dis	posed o	f, or	Bene	fici	ally	Owne	ed			
Date					Date (Month/Day/Year) i		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr. and 5)			ities Acquired (d Of (D) (Instr. :			3, 4 Se Be		5. Amount of Securities Beneficially Owned Following		wnership m: Direct or rect (I) tr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
						Code	v	Amount	(A) or (D)		Price	•	Repor Trans		(IIIst	u . 4)	(111501. 4)			
Common Stock 09/1					016				S ⁽¹⁾		70		D	\$75.78		272			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)	Conversion or Exercise Price of Derivative Security Date (Month/Day/Year) if any (Month/Day/Year)		4. Transac Code (li 8)	e (Instr. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date Expiration (Month/D	7. Title and Amount of Securities Underlying Derivative Security (Inst. 3 and 4) Amount or Numb of Title Share		str. ount	t		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		0. Ownership Form: Direct (D) or Indirect I) (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 09/20/2016

** 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.