FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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 Hsing	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]							5. Relationship of Repo (Check all applicable) X Director V Officer (give ti			10% Owr		Owner				
(Last) (First) (Middle) 79 GREAT OAKS BLVD				3. Date of Earliest Transaction (Month/Day/Year) 05/07/2013]	X Offic belo	w)	e CEO	belov	r (specify v)	
(Street)				4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)						
SAN JOS	SAN JOSE CA 95119											X Form filed by One Reporting Person Form filed by More than One Reporting					
(City)		Person															
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Yea	r) 2A. Deemo Execution if any (Month/Da	Date,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)					es ally	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code	v	Amount	(A) or (D)	Price		Reporte Transact (Instr. 3	d tion(s)	(instr. 4	+) (instr. 4)	
Common Stock			05/07/2013			S ⁽¹⁾		2,053	D	\$24.2	24	589	,966	Ε			
Common Stock			05/08/2013	5/08/2013		S ⁽¹⁾		5,054	D	\$24.10	013	3 584,912		D			
Common Stock			05/08/2013	05/08/2013		Α		449(2)	Α	\$ <mark>0.0</mark>	0	585,361		D			
Common Stock			05/08/2013)5/08/2013		S ⁽¹⁾		238	D	\$24.10	007	7 585,123		Γ			
Common Stock												465,566		Ι	H V	By Jointly v/Spouse	
Common Stock												133,040		Ι	I	By S. Hsing 04 Frust	
Common Stock												33,000		Ι		Ising Fam Foundation	
Common Stock												133,040		Ι	I	oy M Ising 04 Trust	
	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)	ttive Conversion Date Execution D ty or Exercise (Month/Day/Year) if any		Execution Date, if any	4. Transaction Code (Instr. 8)	er 6. Date Exercisable and Expiration Date (Month/Day/Year) es d			Amo Secu Unde Deriv Secu	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		B. Price of Derivative Security Instr. 5)	vative Securities rity Beneficially		0. Dwnership Form: Direct (D) or Indirect I) (Instr. I)	Beneficial Ownership		

Explanation of Responses:

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

2. Equitable stock dividend adjustment approved by the Board of Director as a result of dividend Payment to shareholders on December 28, 2012. Stock dividends will release according to the same vesting schedule as the original grants.

Date

Exercisable

(A) (D)

v

Code

By: Saria Tseng For: Michael 05/08/2013 Hsing

Amount or Number

Shares

of

Title

Expiration

Date

** 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.