FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
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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

Name and Address of Reporting Person* Blegen Theodore					MOI	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									heck	all app	olicable) ctor	10% C		Owner	
· , , , , , , , , , , , , , , , , , , ,					3. Date of Earliest Transaction (Month/Day/Year) 08/02/2016									X	Officer (give title below)		FO	Other (specify below)			
(Street) SAN JOS (City)	E CA		5119 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Indiv ne) X	Form	al or Joint/Group Filing (Check Applicable orm filed by One Reporting Person orm filed by More than One Reporting erson				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/				y/Year)	Execution Date,						ities Acquired (A d Of (D) (Instr. 3,			S, 4 Secur Bene Owne		icially d	6. Owne Form: D (D) or Indirect (Instr. 4	irect	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	(A (D) or)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		((111341. 4)		
Common Stock 08/02/2					016				S ⁽¹⁾		177		D	\$72.67		4	48,770				
		Та	ble II	- Derivat (e.g., pı							sed of, onvertib				y Ov	vned					
1. Title of Derivative Security (Instr. 3)	2. Conversion Date Date (Month/Day/Year) 3A. Deemed Execution Date, if any (Month/Day/Year) Security		4. Transaction Code (Instr. 8)		5. Nu of Deriv Securi Acqui (A) or Disport of (D) (Instrand 5	rities ired r osed)	Expiratio				Amount of Securities Underlying Derivative Security (Instr 3 and 4)			ice vative rrity r. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Own Forn Direc or In (I) (II 4)	ct (D) direct	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

Explanation of Responses:

1. The reported sales were to cover taxes upon the vesting of restricted stock units, as required by the Company's equity incentive plans.

By: Saria Tseng For: T. Bernie <u>08/02/2016</u>

** 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.

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