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 Ueunten Paul					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify						
(Last) 79 GREA	(Fir	,	3. Date of Earliest Transaction (Month/Day/Year) 11/01/2012								X	Officer (give title below) Sr. V.P. Desig		below)				
(Street) SAN JOS (City)			95119 (Zip)				4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
1. Title of Security (Instr. 3) 2. Tra					ection 2 Eag/Year) if		Securities Acc 2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (ADisposed Of (D) (Instr. 35)			5. Am Secui Bene Owne	mount of urities eficially ed	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) o (D)	r Prio	Reprice Tra		wing rted saction(s) :. 3 and 4)	(Instr. 4)	(Instr. 4)		
Common	Stock			11/01/20)12			S ⁽¹⁾		1,370	D	\$1	7.341	1.	22,766	D			
Common	Stock													1	53,556	I	Ueunten Trust I		
Common	Stock													1	13,900	I	Ueunten Trust II		
Common	Stock													2	26,000	I	Ueunten Trust III		
Common Stock													26,000		I	Ueunten Trust IV			
		Та	ble I	l - Derivat (e.g., pu						osed of, o				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		Execu			5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expirat (Month	ion D		7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		of Dei Sed (Ins	Price f erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A) (D)	Date Exercis	able	Expiration Date		Amour or Number of Shares	er						

Explanation of Responses:

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

By: Meera Rao For: Paul <u>Ueunten</u> 11/05/2012

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

 $^{^{\}star}$ 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).