# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

### **SCHEDULE 13G**

Under the Securities Exchange Act of 1934 (Amendment No. 1)\*

Innovative Solutions and Support, Inc.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
45769N 105
(CUSIP Number)
December 31, 2004
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
□ Rule 13d-1(b)
□ Rule 13d-1(c)
☑ Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 4576	59N 1	05		
1 Names of Re I.R.S. Identi	eporti ficati	ng Persons on Nos. of above persons (entities only).		
		-Hannifin Corporation		
(a) (b)		priate Box if a Member of a Group (See Instructions)  oplicable		
3 SEC Use On	ly			
4 Citizenship	or Pla	ace of Organization		
Oh	nio			
Number of Shares Beneficially Owned by Each Reporting Person With	5	Sole Voting Power		
		3,251		
	6	Shared Voting Power		
		-0-		
	7	Sole Dispositive Power		
		3,251		
	8	Shared Dispositive Power		
		-0-		
9 Aggregate A	mou	nt Beneficially Owned by Each Reporting Person		
3,2				
10 Check if the	Aggı	regate Amount in Row (9) Excludes Certain Shares (See Instructions)		
		plicable		
11 Percent of C	lass I	Represented by Amount in Row (9)		
	)3%			
12 Type of Rep	orting	g Person (See Instructions)		
CO				

1(a).	Name of Issuer:			
	Innovative Solutions and Support, Inc.			
1(b).	Address of Issuer's Principal Executive Offices:			
	720 Penn Exton, Pa	asylvania Drive A 19341		
2(a).	Name of Person Filing:			
	Parker-H	annifin Corporation		
2(b).	Address of Principal Business Office or, if None, Residence:			
	6035 Parkland Boulevard Cleveland, OH 44124			
2(c).	Citizenship:			
	Ohio corporation			
2(d).	Title of C	Class of Securities:		
	Common Stock			
2(e).	CUSIP Number:			
	45769N105			
If this sta	statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:			
3(a).		Broker or dealer registered under section 15 of the Act (15 U.S.C. 780).		
<b>3(b).</b>		Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).		
3(c).		Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).		
3(d).		Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).		
3(e).		An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);		
3(f).		An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);		
3(g).		A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);		
3(h).		A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);		
3(i).		A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);		
		Company Net of 1740 (15 O.S.C. ova 5),		
3(j).		Group, in accordance with §240.13d-1(b)(1)(ii)(J).		
	1(b).  2(a).  2(b).  2(c).  2(d).  2(e).  If this standard in the standard in	Innovative   Inn		

Item

Item

Item

#### Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- **4(a).** Amount beneficially owned: 3,251
- **4(b).** Percent of class: 0.03%
- **4(c).** Number of shares as to which the person has:
  - (i) Sole power to vote or to direct the vote: 3,251
  - (ii) Shared power to vote or to direct the vote: 0
  - (iii) Sole power to dispose or to direct the disposition of: 3,251
  - (iv) Shared power to dispose or to direct the disposition of: 0

Instruction. For computations regarding securities which represent a right to acquire an underlying security see §240.13d3(d)(1).

#### Item 5. Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following  $\boxtimes$ .

#### Item 6. Ownership of More than Five Percent on Behalf of Another Person

Not Applicable

## Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

Not Applicable.

#### Item 8. Identification and Classification of Members of the Group

Not Applicable.

#### Item 9. Notice of Dissolution of Group

Not Applicable.

#### Item 10. Certification

Not Applicable.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

February 3, 2005 (Date)

PARKER-HANNIFIN CORPORATION

/s/ Thomas A. Piraino, Jr.

(Signature)

Thomas A. Piraino, Jr. Vice President and Secretary

(Name/Title)