

**UNITED STATES
SECURITIES AND EXCHANGE
COMMISSION**

Washington, D.C. 20549

SCHEDULE 13D

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

U.S. Auto Parts Network, Inc.

(Name of Issuer)

Common Stock, \$0.001 par value per share

(Title of Class of Securities)

90343C100

(CUSIP Number)

**Michael R. Murphy
Discovery Group I, LLC
191 North Wacker Drive
Suite 1685
Chicago, Illinois 60606
Telephone Number: (312) 265-9600**

(Name, Address and Telephone Number of Person
Authorized to Receive Notices and Communications)

August 30, 2012

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

*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 disclosures provided in a prior cover page.

The information required on 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).

1. Names of Reporting Persons.
Discovery Equity Partners, L.P.

 2. Check the Appropriate Box if a Member of a Group (See Instructions)
 - (a)
 - (b)

 3. SEC Use Only

 4. Source of Funds (See Instructions)
WC

 5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)
 6. Citizenship or Place of Organization
Illinois

 7. Sole Voting Power
None.

 8. Shared Voting Power
1,702,885

 9. Sole Dispositive Power
None.

 10. Shared Dispositive Power
1,702,885

 11. Aggregate Amount Beneficially Owned by Each Reporting Person
1,702,885

 12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
 13. Percent of Class Represented by Amount in Row (11)
5.6%

 14. Type of Reporting Person (See Instructions)
PN

-

Number of
Shares
Beneficially
Owned by
Each
Reporting
Person With

1. Names of Reporting Persons.
Discovery Group I, LLC

2. Check the Appropriate Box if a Member of a Group (See Instructions)
 - (a)

 - (b)

3. SEC Use Only

4. Source of Funds (See Instructions)
AF

5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)

6. Citizenship or Place of Organization
Delaware

7. Sole Voting Power
None.

8. Shared Voting Power
1,949,674

9. Sole Dispositive Power
None.

10. Shared Dispositive Power
1,949,674

11. Aggregate Amount Beneficially Owned by Each Reporting Person
1,949,674

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)

13. Percent of Class Represented by Amount in Row (11)
6.4%

14. Type of Reporting Person (See Instructions)
IA

Number of
Shares
Beneficially
Owned by
Each
Reporting
Person With

1. Names of Reporting Persons.
Daniel J. Donoghue
-
2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a)
(b)
-
3. SEC Use Only
-
4. Source of Funds (See Instructions)
AF
-
5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)
-
6. Citizenship or Place of Organization
United States of America
-
7. Sole Voting Power
None.
-
8. Shared Voting Power
1,949,674
-
9. Sole Dispositive Power
None.
-
10. Shared Dispositive Power
1,949,674
-
11. Aggregate Amount Beneficially Owned by Each Reporting Person
1,949,674
-
12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
-
13. Percent of Class Represented by Amount in Row (11)
6.4%
-
14. Type of Reporting Person (See Instructions)
IN
-

Number of
Shares
Beneficially
Owned by
Each
Reporting
Person With

1. Names of Reporting Persons.
Michael R. Murphy
-
2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a)
(b)
-
3. SEC Use Only
-
4. Source of Funds (See Instructions)
AF
-
5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)
-
6. Citizenship or Place of Organization
United States of America
-
7. Sole Voting Power
None.
-
8. Shared Voting Power
1,949,674
-
9. Sole Dispositive Power
None.
-
10. Shared Dispositive Power
1,949,674
-
11. Aggregate Amount Beneficially Owned by Each Reporting Person
1,949,674
-
12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
-
13. Percent of Class Represented by Amount in Row (11)
6.4%
-
14. Type of Reporting Person (See Instructions)
IN
-

Number of
Shares
Beneficially
Owned by
Each
Reporting
Person With

Item 1. Security and Issuer

This Amendment No. 1 to Schedule 13D (“**Amendment No. 1**”) relates to the Common Stock, \$0.001 par value per share (the “**Common Stock**”), of U.S. Auto Parts Network, Inc., a Delaware corporation (the “**Company**”), which has its principal executive offices at 16941 Keegan Avenue, Carson, CA 90746. This Amendment No. 1 amends and supplements, as set forth below, the information contained in items 1, 2, 3, 5 and 6 of the Schedule 13D filed by the Reporting Persons with respect to the Company on May 2, 2012 (as so amended, the “**Schedule 13D**”). All capitalized terms used herein but not defined herein have the meanings set forth in the Schedule 13D. Except as amended by this Amendment No. 1, all information contained in the Schedule 13D is, after reasonable inquiry and to the best of the Reporting Persons’ knowledge and belief, true, complete, and correct as of the date of this Amendment No. 1.

Item 2. Identity and Background

Item 2 of the Schedule 13D is hereby amended by adding the following as the second line hereof:

Discovery Equity Partners, L.P. (“**Discovery Equity Partners**”) is an Illinois limited partnership primarily engaged in the business of investing in securities.

Item 3. Source and Amount of Funds or Other Consideration

Item 3 of the Schedule 13D is hereby amended to read in its entirety as follows:

The total purchase price for the 1,949,674 shares of Common Stock beneficially owned by Discovery Group and Messrs. Donoghue and Murphy as of August 31, 2012 was approximately \$7,749,372 and the total purchase price for the 1,702,885 shares of Common Stock beneficially owned by Discovery Equity Partners was approximately \$6,762,617. The source of such funds was the assets of Discovery Equity Partners and another private investment partnership (collectively, the “**Partnerships**”) over which Discovery Group exercises discretionary investment management authority, including proceeds of margin loans under margin loan facilities maintained in the ordinary course of business by the Partnerships with a broker on customary terms and conditions. The Partnerships are the legal owner of all of the Common Stock beneficially owned by Discovery Group and Messrs. Donoghue and Murphy.

Item 5. Interest in Securities of the Issuer

Item 5 of the Schedule 13D is hereby amended to read in its entirety as follows:

The information concerning percentages of ownership set forth below is based on 30,658,885 shares of Common Stock reported outstanding as of August 1, 2012 in the Company’s Quarterly Report on Form 10-Q for the quarter ended June 30, 2012.

Discovery Equity Partners beneficially owns 1,702,885 shares of Common Stock as of August 31, 2012, which represents 5.6% of the outstanding Common Stock.

Discovery Group beneficially owns 1,949,674 shares of Common Stock as of August 31, 2012, which represents 6.4% of the outstanding Common Stock.

Mr. Donoghue beneficially owns 1,949,674 shares of Common Stock as of August 31, 2012, which represents 6.4% of the outstanding Common Stock.

Mr. Murphy beneficially owns 1,949,674 shares of Common Stock as of August 31, 2012, which represents 6.4% of the outstanding Common Stock.

Discovery Group is the sole general partner of Discovery Equity Partners and has sole discretionary investment authority with respect to the other Partnership’s investment in the Common Stock. Messrs. Donoghue and Murphy are the sole managing members of Discovery Group. As a consequence, Discovery Group and Messrs. Donoghue and Murphy may be deemed to share beneficial ownership of all of the shares of Common Stock owned by both of the Partnerships, while Discovery Equity Partners shares beneficial ownership with Discovery Group and Messrs. Donoghue and Murphy of only the shares of Common Stock owned by it.

The transactions in Common Stock effected by the Reporting Persons during the past 60 days are set out in Exhibit 1 hereto.

No person other than the Partnerships is known to any Reporting Person to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, any of the shares of Common Stock reported herein.

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer

Item 6 of the Schedule 13D is hereby amended to read in its entirety as follows:

There are no contracts, arrangements, understandings or relationships (legal or otherwise) between or among any of the Reporting Persons and any other person with respect to any securities of the Company other than the governing documents of Discovery Group and the Partnerships, the margin loan facilities referred to under Item 3 above, the Joint Filing

Agreements of the Reporting Persons with respect to the Schedule 13D that were included as exhibits thereto, the Joint Filing Agreement of the Reporting Persons with respect to this Amendment No. 1 included as Exhibit 2 to this Amendment No. 1, and the Powers of Attorney granted by Messrs. Donoghue and Murphy with respect to reports under Section 13 of the Securities Exchange Act of 1934, as amended, which Powers of Attorney are included as Exhibit 3 and Exhibit 4, respectively, to this Amendment No. 1.

Item 7. Material to Be Filed as Exhibits

Exhibit 1: List of transactions effected by the Reporting Persons in the Company's Common Stock during the 60-day period preceding this filing.

Exhibit 2: Joint Filing Agreement dated as of September 4, 2012, by and among Discovery Equity Partners; Discovery Group; Daniel J. Donoghue; and Michael R. Murphy.

Exhibit 3: Power of Attorney of Daniel J. Donoghue, dated as of April 28, 2008.

Exhibit 4: Power of Attorney of Michael R. Murphy, dated as of April 28, 2008.

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.

September 4, 2012

Date

DISCOVERY GROUP I, LLC,
for itself and as general partner of
DISCOVERY EQUITY PARTNERS, L.P.

By: Michael R. Murphy*

Signature

Michael R. Murphy, Managing Member

Name/Title

Daniel J. Donoghue*

Signature

Daniel J. Donoghue

Name/Title

Michael R. Murphy*

Signature

Michael R. Murphy

Name/Title

*By: /s/ Mark Buckley

Mark Buckley

Attorney-in-Fact for Daniel J. Donoghue

Attorney-in-Fact for Michael R. Murphy

Exhibit Index

- Exhibit 1 List of transactions effected by the Reporting Persons in the Company's Common Stock during the 60-day period preceding this filing.
- Exhibit 2 Joint Filing Agreement dated as of September 4, 2012, by and among Discovery Equity Partners; Discovery Group; Daniel J. Donoghue; and Michael R. Murphy.
- Exhibit 3 Power of Attorney of Daniel J. Donoghue, dated as of April 28, 2008.
- Exhibit 4 Power of Attorney of Michael R. Murphy, dated as of April 28, 2008.

TRANSACTIONS DURING PAST 60 DAYS

The Reporting Persons engaged in the following transactions in shares of Common Stock of the Company during the past 60 days. Such transactions involved the sale of shares on the NASDAQ Global Select Market. Certain of the prices reported below reflect the weighted average sale price of the shares of Common Stock sold on the relevant date. The Reporting Persons hereby undertake to provide upon request to the SEC staff full information regarding the number of shares and prices at which each transaction was effected.

Date	Type	Price	Shares
7/11/2012 ¹	Purchase	\$ 4.2245	2406
7/12/2012 ²	Purchase	\$ 4.2173	2438
7/18/2012	Purchase	\$ 4.2500	299
7/19/2012 ³	Purchase	\$ 4.2482	2793
7/20/2012 ⁴	Purchase	\$ 4.1699	21370
7/23/2012 ⁵	Purchase	\$ 4.0718	3558
7/24/2012 ⁶	Purchase	\$ 4.0627	4800
7/25/2012 ⁷	Purchase	\$ 3.9993	6165
7/26/2012 ⁸	Purchase	\$ 3.9921	2886
7/27/2012	Purchase	\$ 3.8000	772
8/2/2012	Purchase	\$ 4.2500	1400
8/7/2012 ⁹	Purchase	\$ 4.2424	41000
8/9/2012 ¹⁰	Purchase	\$ 3.9256	12213
8/10/2012 ¹¹	Purchase	\$ 3.9226	1108
8/14/2012 ¹²	Purchase	\$ 3.7428	5000
8/16/2012 ¹³	Purchase	\$ 3.7412	4100
8/16/2012	Sell	\$ 3.7700	741

¹ This transaction was executed in multiple trades at prices ranging from \$4.21 – 4.25.

² This transaction was executed in multiple trades at prices ranging from \$4.18 – 4.22.

³ This transaction was executed in multiple trades at prices ranging from \$4.24 – 4.25.

⁴ This transaction was executed in multiple trades at prices ranging from \$4.12 – 4.21.

⁵ This transaction was executed in multiple trades at prices ranging from \$4.02 – 4.10.

⁶ This transaction was executed in multiple trades at prices ranging from \$4.04 – 4.08.

⁷ This transaction was executed in multiple trades at prices ranging from \$3.98 – 4.00.

⁸ Due to incomplete data available to the Reporting Persons, the Reporting Persons are reporting the average price of transactions effected on this date.

⁹ This transaction was executed in multiple trades at prices ranging from \$4.23 – 4.25.

¹⁰ This transaction was executed in multiple trades at prices ranging from \$3.88 – 3.95.

¹¹ This transaction was executed in multiple trades at prices ranging from \$3.90 – 3.95.

¹² This transaction was executed in multiple trades at prices ranging from \$3.71 – 3.75.

¹³ This transaction was executed in multiple trades at prices ranging from \$3.72 – 3.75.

8/17/2012 ¹⁴	Purchase	\$ 3.7236	4862
8/20/2012 ¹⁵	Purchase	\$ 3.6478	2300
8/21/2012 ¹⁶	Purchase	\$ 3.7382	5000
8/22/2012 ¹⁷	Purchase	\$ 3.6015	4643
8/23/2012 ¹⁸	Purchase	\$ 3.5061	254
8/24/2012 ¹⁹	Purchase	\$ 3.4650	3347
8/29/2012	Purchase	\$ 3.3000	638
8/30/2012 ²⁰	Purchase	\$ 3.2581	10000
8/31/2012 ²¹	Purchase	\$ 3.0391	13200

¹⁴ This transaction was executed in multiple trades at prices ranging from \$3.70 – 3.75.

¹⁵ This transaction was executed in multiple trades at prices ranging from \$3.64 – 3.70.

¹⁶ This transaction was executed in multiple trades at prices ranging from \$3.69 – 3.75.

¹⁷ This transaction was executed in multiple trades at prices ranging from \$3.58 – 3.63.

¹⁸ This transaction was executed in multiple trades at prices ranging from \$3.50 – 3.51.

¹⁹ This transaction was executed in multiple trades at prices ranging from \$3.41 – 3.47.

²⁰ This transaction was executed in multiple trades at prices ranging from \$3.21 – 3.28.

²¹ This transaction was executed in multiple trades at prices ranging from \$2.94 – 3.15.

JOINT FILING AGREEMENT

The undersigned hereby agree to the joint filing of the Schedule 13D to which this Agreement is attached.

Dated: September 4, 2012

DISCOVERY GROUP I, LLC
for itself and as general partner of
DISCOVERY EQUITY PARTNERS, L.P.

By: /s/ Michael R. Murphy*

Michael R. Murphy
Managing Member

Daniel J. Donoghue*

Daniel J. Donoghue

Michael R. Murphy*

Michael R. Murphy

By: /s/ Mark Buckley

Mark Buckley
Attorney-in-Fact for Daniel J. Donoghue
Attorney-in-Fact for Michael R. Murphy

POWER OF ATTORNEY

The undersigned, Daniel J. Donoghue, hereby appoints Mark Buckley his true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on his behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorney-in-fact and agent.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 28th day of April, 2008.

/s/ Daniel J. Donoghue
Daniel J. Donoghue

STATE OF)
ILLINOIS)
) SS.
COUNTY OF)
COOK)

I, Kareema M. Cruz, a Notary Public in and for the County of Cook, State of Illinois, DO HEREBY CERTIFY that Daniel J. Donoghue, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 28th day of April, 2008.

/s/ Kareema M. Cruz
Notary Public

POWER OF ATTORNEY

The undersigned, Michael R. Murphy, hereby appoints Mark Buckley his true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on his behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorney-in-fact and agent.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 28th day of April, 2008.

/s/ Michael R. Murphy

Michael R. Murphy

STATE OF)
ILLINOIS)
) SS.
COUNTY OF)
COOK)

I, Kareema M. Cruz, a Notary Public in and for the County of Cook, State of Illinois, DO HEREBY CERTIFY that Michael R. Murphy, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 28th day of April, 2008.

/s/ Kareema M. Cruz

Notary Public