

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. )\*

U S Auto Parts Network Inc  
(Name of Issuer)

Common Stock  
(Title of Class of Securities)

90343C100  
(CUSIP Number)

December 30, 2011  
(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: 90343C100

Page 1 of 5

<Page>

1 NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)  
Capital World Investors \*\*

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE  
INSTRUCTIONS) (a)

(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5 SOLE VOTING POWER

1,980,000

6 SHARED VOTING POWER

NUMBER OF

SHARES NONE

BENEFICIAL

Y OWNED BY

7 SOLE DISPOSITIVE POWER

EACH

REPORTING 1,980,000

PERSON

WITH:

8 SHARED DISPOSITIVE POWER

NONE

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,980,000 Beneficial ownership disclaimed pursuant to Rule  
13d-4

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  
(SEE INSTRUCTIONS)

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

6.5%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IA

\*\* A division of Capital Research and Management Company (CRMC)

CUSIP: 90343C100

Page 2 of 5

<Page>

SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

Schedule 13G  
Under the Securities Exchange Act of 1934

Amendment No.

Item 1(a) Name of Issuer:  
U S Auto Parts Network Inc

Item 1(b) Address of Issuer's Principal Executive Offices:  
17150 South Margay Avenue  
Carson CA 90746

Item 2(a) Name of Person(s) Filing:  
Capital World Investors

Item 2(b) Address of Principal Business Office or, if none,  
Residence:  
333 South Hope Street  
Los Angeles, CA 90071

Item 2(c) Citizenship: N/A

Item 2(d) Title of Class of Securities:  
Common Stock

Item 2(e) CUSIP Number:  
90343C100

Item 3 If this statement is filed pursuant to sections 240.13d-1(b)  
or 240.13d-2(b) or (c), check whether the person filing is a:  
(e)  An investment adviser in accordance with  
section 240.13d-1(b)(1)(ii)(E).

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.

- (a) Amount beneficially owned:
- (b) Percent of class:
- (c) Number of shares as to which the person has:
  - (i) Sole power to vote or to direct the vote:
  - (ii) Shared power to vote or to direct the vote:
  - (iii) Sole power to dispose or to direct the disposition of:
  - (iv) Shared power to dispose or to direct the disposition of:

See page 2

Capital World Investors is deemed to be the beneficial owner of  
1,980,000 shares or 6.5% of the 30,625,764 shares believed to  
be outstanding as a result of CRMC acting as investment adviser  
to various investment companies registered under Section 8 of  
the Investment Company Act of 1940.

CUSIP: 90343C100

Page 3 of 5

<Page>

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:

Item 6 Ownership of More than Five Percent on Behalf of Another  
Person: One or more clients of Capital World Investors have the  
right to receive or the power to direct the receipt of  
dividends from, or the proceeds from the sale of, the Common  
Stock of U S Auto Parts Network Inc. Capital World Investors  
holds more than five percent of the outstanding Common Stock of  
U S Auto Parts Network Inc as of December 30, 2011 on behalf of  
each of the following client(s):

SMALLCAP World Fund, Inc.

Item 7 Identification and Classification of the Subsidiary Which  
Acquired the Security Being Reported on By the Parent Holding  
Company or Control Person: N/A

Item 8 Identification and Classification of Members of the Group:  
N/A

Item 9 Notice of Dissolution of Group: N/A

Item 10 Certification

By signing below, I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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.

Date: February 9, 2012

Signature: Robert W. Lovelace\*\*\*

Name/Title: Robert W. Lovelace - Senior Vice  
President  
Capital World Investors

CUSIP: 90343C100

Page 4 of 5

\*\*\*By /s/ Walter R. Burkley  
Walter R. Burkley  
Attorney-in-fact

Signed pursuant to a Power of Attorney dated December 20, 2010 included as an Exhibit to Schedule 13G filed with the Securities and Exchange Commission by Capital World Investors on January 10, 2011 with respect to Georgia Gulf Corporation.

CUSIP: 90343C100

Page 5 of 5