$E; S; M \Downarrow N; S'$ (M evaluates to N in environment E and store S)

$$U = \overline{MN} \quad \text{``Unevaluated Lazycons''}$$

$$E; lcons(M,N) \Downarrow U$$

$$\frac{E, S; M \Downarrow lcons(N,M'); S' \qquad E, S'; N \Downarrow V_N; S''}{\qquad}$$
$$E, S''; M' \Downarrow V_M; S''' \qquad S'''[lcons(N,M') \to cons(V_M, V_N)] = S''''$$
$$\frac{E[x \to V_N][l \to V_M]; S''''; R \Downarrow U; S'''''}{E, S; match\ M\ \{nil \to N, | cons(r.l) \to R\} \Downarrow U; S''''''}$$